

10/634,181

STN-Structure
Search 1-23-2

=> d his

(FILE 'HOME' ENTERED AT 16:47:25 ON 23 JAN 2004)

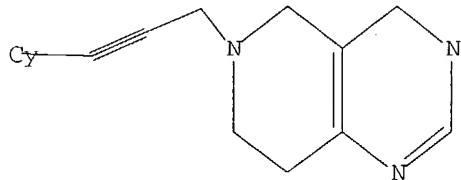
FILE 'REGISTRY' ENTERED AT 16:47:32 ON 23 JAN 2004

L1 STRUCTURE UPLOADED
L2 0 S L1
L3 STRUCTURE UPLOADED
L4 0 S L3
L5 0 S L3 FULL

=> d 13

L3 HAS NO ANSWERS

L3 STR



Structure attributes must be viewed using STN Express query preparation.

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=> d ibib abs hitstr 1-48

STRUCTURE SEARCH

1-22-04

L7 ANSWER 1 OF 48 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2003:991510 CAPLUS

ACCESSION NUMBER: 140:42193
DOCUMENT NUMBER: 140:42193

INVENTOR(S): Arai, Hitoshi; Matsumura, Tsutomu; Ishida, Hiroshi;
Yamaura, Yosuke; Aratake, Seiji; Ohshima, Etsuo;
Yanagawa, Koji; Miyama, Motoki; Suzuki, Koji; Kawabe,
Ari; Nakanishi, Satoshi; Kobayashi, Katsuya; Sato,
Takashi; Miki, Ichiro; Ueno, Kimihisa; Fujii, Shinya;
Iwase, Mihoko

PATENT ASSIGNEE(S): Kyowa Hakko Kogyo Co., Ltd., Japan

PATENT ASSIGNEE(S): Royal Harris Reg. Co.,
SOURCE: PCT Int. Appl., 467 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

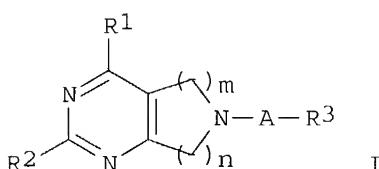
DOCUMENT TYPE: **Passage**
LANGUAGE: **Japanese**

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003104230	A1	20031218	WO 2003-JP7200	20030606
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			

PRIORITY APPLN. INFO.: JP 2002-166504 A 20020607
GI



AB The title compds. I [wherein m and n = independently 1-3; R1 = (un)substituted amino; R2 = -B-(CX2)p-R7, (un)substituted piperidinyl, piperazinyl, or amino; B = O, CH=CH, C.tplbond.C, or phenylene; p = 1-4; X = H, halo, or (un)substituted alkyl; R7 = (un)substituted amino; A = a single bond, CO, SO₂, OCO, OCS, SCO, SCS, (un)substituted NHCO, NHCS, or amino; R3 = H, (un)substituted alkyl, cycloalkyl, alkenyl, alkynyl, aralkyl, aryl, heteroaryl, heterocyclyl, heteroarylalkyl, or heterocyclylalkyl, etc.] or quaternary ammonium salts, or pharmaceutically acceptable salts thereof are prep'd. I have an antiinflammatory effect and an effect of controlling the function(s) of TARC and/or MDC and, therefore, are usable in treating and/or preventing various diseases in which T cells participate, for example, allergic diseases, autoimmune diseases, rejection at transplantation, etc. (no data). Formulations

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contg. I as an active ingredient were also described.

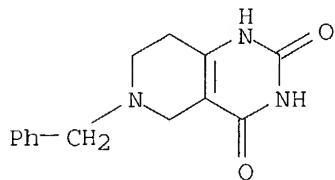
IT 135481-57-1P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(intermediate; prepn. of bicyclic pyrimidine derivs. as antiinflammatory agents for treatment of allergic diseases)

RN 135481-57-1 CAPLUS

CN Pyrido[4,3-d]pyrimidine-2,4(1H,3H)-dione, 5,6,7,8-tetrahydro-6-(phenylmethyl)- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 2 OF 48 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2003:796321 CAPLUS

DOCUMENT NUMBER: 139:307784

TITLE: Preparation of fused heterocyclic inhibitors of cAMP phosphodiesterase and their use in treatment of T cell-mediated diseases

INVENTOR(S): Pitts, William J.; Barbosa, Joseph; Guo, Junqing

PATENT ASSIGNEE(S): USA

SOURCE: U.S. Pat. Appl. Publ., 36 pp., Cont.-in-part of U.S. Ser. No. 137,508.

CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English

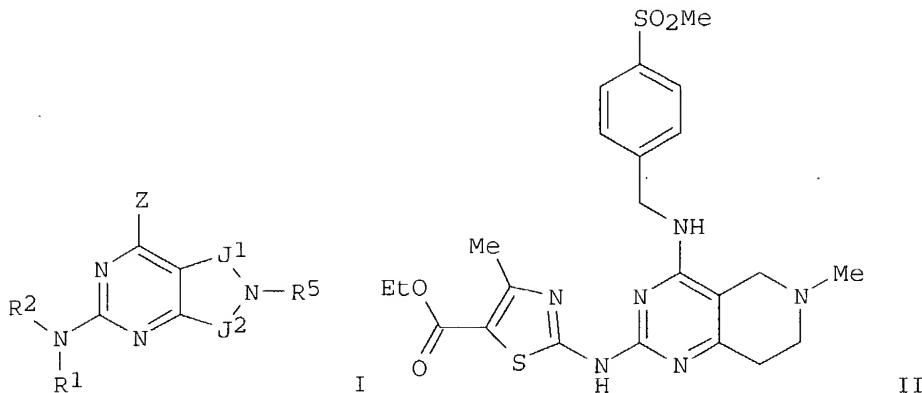
FAMILY ACC. NUM. COUNT: 7

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2003191143	A1	20031009	US 2002-288980	20021106
US 2003092908	A1	20030515	US 2002-137508	20020501
PRIORITY APPLN. INFO.:			US 2001-287964P	P 20010501
			US 2001-299287P	P 20010619
			US 2002-368752P	P 20020329
			US 2002-137508	A2 20020501

OTHER SOURCE(S): MARPAT 139:307784

GI



AB The title compds. [I; R1 = H, alkyl; R2 = (substituted) heteroaryl, heterocycle, aryl, aryl fused to heteroaryl or heterocycle; R5 = H, CN, (substituted)alkyl, alkenyl, alkynyl, cycloalkyl, COR6, COOR6, COCOOR6, SO2R6a, etc.; R6 = H, alkyl, alkenyl, etc.; R6a = alkyl, alkenyl, etc.; Z = NR3R4, NR3SO2R4a, OR4, SR4, haloalkyl, halo; R3, R4 = H, alkyl, alkenyl, etc.; R4a = alkyl, alkenyl, etc. ; J1, J2 = C1-3 alkylene but both J1 and J2 are not > C2] and analogs thereof are prep'd. which are useful in treating T-cell mediated diseases. E.g., a multi-step synthesis of II is given. Pharmaceutical compn. comprising the compd. I is claimed.

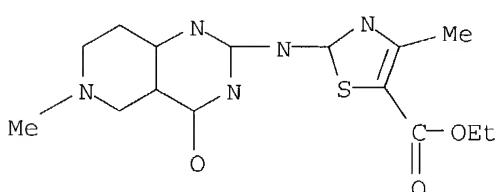
IT 474405-76-0P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(prepn. of fused heterocyclic inhibitors of cAMP phosphodiesterase and their use in treatment of T cell-mediated diseases)

RN 474405-76-0 CAPLUS

CN 5-Thiazolecarboxylic acid, 2-[(1,4,5,6,7,8-hexahydro-6-methyl-4-oxopyrido[4,3-d]pyrimidin-2-yl)amino]-4-methyl-, ethyl ester (9CI) (CA INDEX NAME)

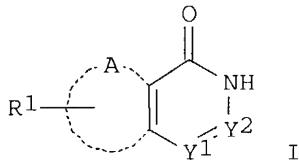


*** FRAGMENT DIAGRAM IS INCOMPLETE ***

L7 ANSWER 3 OF 48 CAPLUS COPYRIGHT 2004 ACS on STN
 ACCESSION NUMBER: 2003:610269 CAPLUS
 DOCUMENT NUMBER: 139:164803
 TITLE: Preparation of condensed heterocyclic compounds as PARP inhibitors
 INVENTOR(S): Ishida, Junya; Hattori, Kouji; Kido, Yoshiyuki; Yamamoto, Hirofumi
 PATENT ASSIGNEE(S): Fujisawa Pharmaceutical Co., Ltd., Japan
 SOURCE: PCT Int. Appl., 64 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003063874	A1	20030807	WO 2003-JP708	20030127
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
PRIORITY APPLN. INFO.:		AU 2002-197		A 20020129
OTHER SOURCE(S):		MARPAT 139:164803		
GI				



AB The title compds. [I; R1 = H, halo, alkyl or alkoxy; A and two adjacent carbon atoms of the six membered ring to be bonded with A form benzene ring, pyridine ring, etc.; Y1:Y2 = N:C(L11R21), C(L12R22):N, CH:C(L13R23), C(L14R24):CH (wherein L11, L12, L13, L14 = alkylene, alkenylene, etc.; R21, R22, R23 and R24 = cyclic amino group, carbocyclic group or amino group which are substituted with (un)substituted Ph); provided that when A and two adjacent carbon atoms of the six membered ring to be bonded with A form benzene ring, then Y1:Y2 = C(L12R22):N, CH:C(L13R23), C(L14R24):CH] having poly(adenosine 5'-diphospho-ribose)polymerase (PARP) inhibitory activity, were prepd. Thus, reacting 4-(4-phenyl-3,6-dihydro-1(2H)-

pyridyl)butanimidamide with cyclohexanone-2-carboxylic acid Et ester in the presence of K2CO3 in EtOH afforded 2-[3-(4-phenyl-3,6-dihydro-1(2H)-pyridyl)propyl]-5,6,7,8-tetrahydro-4(3H)-quinazolinone which showed IC50 of < 0.5 .mu.M against human PARP.

IT 574006-79-4P

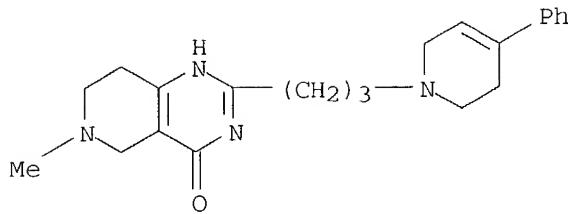
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of condensed heterocyclic compds. as PARP inhibitors)

RN 574006-79-4 CAPLUS

CN Pyrido[4,3-d]pyrimidin-4(1H)-one, 2-[3-(3,6-dihydro-4-phenyl-1(2H)-pyridinyl)propyl]-5,6,7,8-tetrahydro-6-methyl- (9CI) (CA INDEX NAME)

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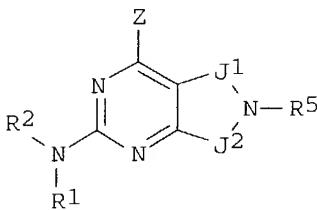
REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 4 OF 48 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2002:849386 CAPLUS
DOCUMENT NUMBER: 137:348408
TITLE: Fused heterocyclic inhibitors of cAMP phosphodiesterase and their use in treatment of T cell-mediated diseases
INVENTOR(S): Pitts, William; Barbosa, Joseph; Guo, Junqing
PATENT ASSIGNEE(S): Bristol-Myers Squibb Company, USA
SOURCE: PCT Int. Appl., 80 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 7
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002087513	A2	20021107	WO 2002-US14049	20020501
WO 2002087513	A3	20030313		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
US 2003104974	A1	20030605	US 2002-135998	20020430
PRIORITY APPLN. INFO.:			US 2001-287964P	P 20010501
			US 2001-299287P	P 20010619
			US 2002-368752P	P 20020329

OTHER SOURCE(S): MARPAT 137:348408

GI



I

10/634, 181

AB Fused heterocyclic cAMP phosphodiesterase inhibitors (I; R1 = H, alkyl; R2 = (substituted)heteroaryl, heterocycle, aryl, aryl fused to heteroaryl or heterocycle; R5 = H, CN, (substituted)alkyl, alkenyl, alkynyl, cycloalkyl, etc., COR6, COOR6, COCOOR6, SO2R6a; R6 = H, alkyl, alkenyl, etc.; R6a = alkyl, alkenyl, etc.; Z = NR3R4, NR3SO2R4a, OR4, SR4, haloalkyl, halo; R3, R4 = H, alkyl, alkenyl, etc.; R4a = alkyl, alkenyl, etc.; J1, J2 = C1-3-alkylene but both J1 and J2 are not > C2) and analogs thereof are provided which are useful in treating T-cell mediated diseases. Thus, many I compds. such as I (R1 = H, R2 = 4-methyl-5-thiazolecarboxylic acid Et ester-2-yl; R5 = Me; J1 = CH2; J2 = CH2CH2; Z = {[4-(methylsulfonyl)phenyl]methyl}amino) were prep'd.

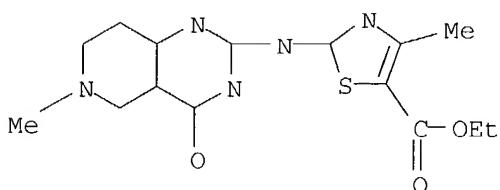
IT 474405-76-0P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(fused heterocyclic inhibitors of cAMP phosphodiesterase and their use in treatment of T cell-mediated diseases)

RN 474405-76-0 CAPLUS

CN 5-Thiazolecarboxylic acid, 2-[(1,4,5,6,7,8-hexahydro-6-methyl-4-oxopyrido[4,3-d]pyrimidin-2-yl)amino]-4-methyl-, ethyl ester (9CI) (CA INDEX NAME)



*** FRAGMENT DIAGRAM IS INCOMPLETE ***

L7 ANSWER 5 OF 48 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2002:748341 CAPLUS

DOCUMENT NUMBER: 137:286331

TITLE: Silver halide photographic material and method of processing the same

INVENTOR(S): Miyoshi, Masanori

PATENT ASSIGNEE(S): Konica Co., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 61 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2002287300	A2	20021003	JP 2001-90006	20010327
PRIORITY APPLN. INFO.:			JP 2001-90006	20010327
OTHER SOURCE(S):	MARPAT	137:286331		

GI



I

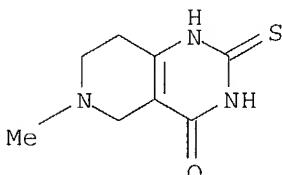
AB The Ag halide photog. material has .gtoreq.1 photosensitive Ag halide emulsion layer on one side of a support and contains compds. represented by $Rf-(L1)m-(Y1)n-X$ (Rf = aliph. group contg. .gtoreq.1 F; $L1$ = divalent bonding group; $Y1$ = alkylene oxide, alkylene; X = H, OH, anionic group, cationic group; m = integer 0-5; and n = integer 0-40), $Rf-(O-Rf')n1-L2-Xm1'$ (Rf' = alkylene contg. .gtoreq.1 F; $L2$ = bonding group; X' = OH, anionic group, cationic group; and $n1$, $m1$ = integer .gtoreq.1), $[(Rf''O)n2-(PFC)-CO-Y2]k-L3-Xm2''$ (Rf'' = C1-4 perfluoroalkyl; (PFC) = perfluoroalkylene; $Y2$ = bonding group contg. O or N; $L3$ = bonding group; X'' = water-sol. polar group; $n2$ = integer 1-5; k = integer 1-3; and $m2$ = integer 1-5), and I (Z = N-contg. heterocycl; M = H, alkali metal, alk. earth metal, ammonium cation). The Ag halide photog. material contains a hydrazine deriv. as a contrasting agent. The processing uses a developer contg. $R1(OM1)C=C(OM2)(X)kR2$ ($R1,2$ = alkyl, amino, alkoxy, alkylthio; k = 0, 1; X = CO, CS; $M1,2$ = H, alkali metal), and is completed in a dry-to-dry processing time 10-60 s. The use of above compds. showed little Ag stains during the development of the Ag halide photog film used for plate making.

IT 154115-14-7

RL: TEM (Technical or engineered material use); USES (Uses)
(silver halide photog. emulsion layer from)

RN 154115-14-7 CAPLUS

CN Pyrido[4,3-d]pyrimidin-4(1H)-one, 2,3,5,6,7,8-hexahydro-6-methyl-2-thioxo-(9CI) (CA INDEX NAME)



L7 ANSWER 6 OF 48 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2001:711623 CAPLUS

DOCUMENT NUMBER: 136:53725

TITLE: One pot synthesis of fused pyrimidines from 2-[N-(methylthiocarbonyl)amino]acetate

AUTHOR(S): Chowdhury, A. Z. M. Shaifullah; Shibata, Yasuyuki; Morita, Masatoshi; Kaya, Kunimitsu; Sano, Tomoharu

CORPORATE SOURCE: Environmental Chemistry Division, National Institute for Environmental Studies, Tsukuba, 305-0053, Japan

SOURCE: Heterocycles (2001), 55(9), 1747-1757

CODEN: HTCYAM; ISSN: 0385-5414

PUBLISHER: Japan Institute of Heterocyclic Chemistry

DOCUMENT TYPE: Journal

LANGUAGE: English

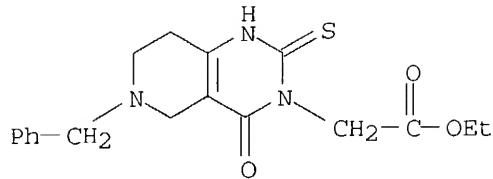
AB A variety of 3-substituted fused pyrimidines are readily obtained from the 2-amino esters with 2-[N-(methylthiocarbonyl)amino]acetate (I). Condensed imidazo[1,2-c]pyrimidine ring system was also constructed in a one-pot process by reacting heteroarom. 2-amino nitriles with I, obtaining a no. of novel tri- and tetracyclic compds.

IT 332097-92-4P

RL: SPN (Synthetic preparation); PREP (Preparation)
(one pot synthesis of fused pyrimidines from [N-(methylthiocarbonyl)amino]acetate)

RN 332097-92-4 CAPLUS

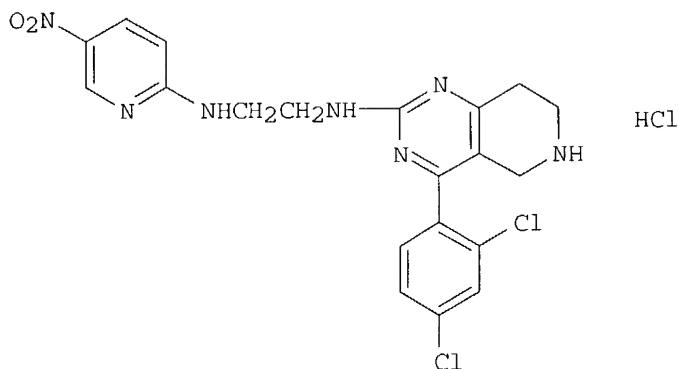
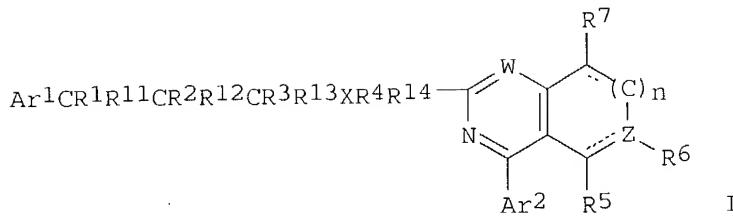
CN Pyrido[4,3-d]pyrimidine-3(2H)-acetic acid, 1,4,5,6,7,8-hexahydro-4-oxo-6-(phenylmethyl)-2-thioxo-, ethyl ester (9CI) (CA INDEX NAME)



REFERENCE COUNT: 23 THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 7 OF 48 CAPLUS COPYRIGHT 2004 ACS on STN
 ACCESSION NUMBER: 2001:453065 CAPLUS
 DOCUMENT NUMBER: 135:46199
 TITLE: Bicyclic inhibitors of glycogen synthase kinase 3
 INVENTOR(S): Nuss, John M.; Zhou, Xiaohui A.
 PATENT ASSIGNEE(S): Chiron Corp., USA
 SOURCE: PCT Int. Appl., 63 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001044246	A1	20010621	WO 2000-US34049	20001214
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
EP 1240168	A1	20020918	EP 2000-989272	20001214
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP 2003516991	T2	20030520	JP 2001-544736	20001214
US 2001044436	A1	20011122	US 2000-738066	20001215
US 2003008866	A1	20030109	US 2002-228621	20020826
PRIORITY APPLN. INFO.:			US 1999-172403P	P 19991217
			WO 2000-US34049	W 20001214
			US 2000-738066	A1 20001215
OTHER SOURCE(S): GI		MARPAT 135:46199		



AB Bicyclic compds. I [W,X, Y, Z = (un)substituted C, N, S; n = 0-2; Ar¹, Ar² = (un)substituted aryl, aryloxy, arylamino, heteroaryl; R¹-R⁴ = H, (un)substituted OH, alkyl, cycloalkyl, amino, acyl, aryl, heteroaryl; R¹¹-R¹⁴ = H, (un)substituted alkyl; R⁵-R⁷ = H, OH, halo, CO₂H, NO₂, CN, (un)substituted alkyl, cycloalkyl, heterocyclyl, alkoxy, aryl, acyl, acyloxy, amino, amido, amidino, imido, arylsulfonyl, arylsulfonamido] were prep'd. for use in inhibiting the activity of glycogen synthase kinase (GSK3) in vitro and a treatment of GSK3 mediated disorders in vivo, such as diabetes, Alzheimer's disease and other neurodegenerative disorders, obesity, atherosclerotic cardiovascular disease, essential hypertension, polycystic ovary syndrome, syndrome X, ischemia, traumatic brain injury, bipolar disorder, immunodeficiency or cancer. Thus, the pyridopyrimidine II was prep'd. from Me 4-oxo-3-piperidinecarboxylate in 7 steps. I have IC₅₀ against GSK3 of .1toreq. 1 .mu.M.

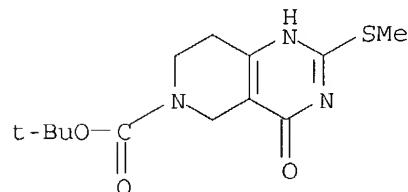
IT 344958-26-5P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(prepn. of pyridopyrimidines as inhibitors of glycogen synthase kinase 3)

RN 344958-26-5 CAPLUS

CN Pyrido[4,3-d]pyrimidine-6(4H)-carboxylic acid, 1,5,7,8-tetrahydro-2-(methylthio)-4-oxo-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



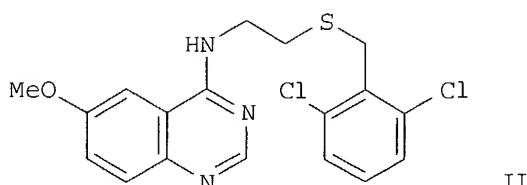
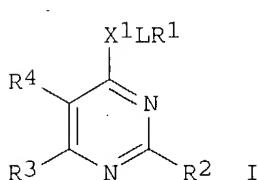
10/634,181

L7 ANSWER 8 OF 48 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2001:338503 CAPLUS
DOCUMENT NUMBER: 134:340517
TITLE: Preparation of heterocycles containing a 4-substituted pyrimidine subunit for pharmaceutical use as mGluR1 antagonists
INVENTOR(S): Ambler, Samantha Jayne; Baker, Stephen Richard; Clark, Barry Peter; Coleman, Darrell Stephen; Foglesong, Robert James; Goldsworthy, John; Jagdmann, Gunnar Erik, Jr.; Johnson, Kirk Willis; Kingston, Ann Elizabeth; Owton, William Martin; Schoepp, Darryle Darwin; Hong, Jian Eric; Schkeryantz, Jeffrey Michael; Vannieuwenhze, Michael Scott; Zia-Ebrahimi, Mohammad Sadegh
PATENT ASSIGNEE(S): Eli Lilly and Company, USA
SOURCE: PCT Int. Appl., 237 pp.
CODEN: PIIXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001032632	A2	20010510	WO 2000-US26261	20001019
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
EP 1230225	A2	20020814	EP 2000-971987	20001019
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL				
PRIORITY APPLN. INFO.:			US 1999-162900P	P 19991101
			WO 2000-US26261	W 20001019

OTHER SOURCE(S): MARPAT 134:340517

GI



AB Heterocycles contg. a 4-substituted pyrimidine subunit, such as I [R1 = carbocyclyl, heterocyclyl; R2 = H, CN, SCH2CN, halogen, alkylthio, alkoxy, alkylsulfonyl, alkylamino, alkylsulfinyl, etc.; R3, R4 = alkyl; R3R4 = fused heterocycle, such as S(CH2)3, CH2O(CH2)2, CH:CHS, or fused carbocycle, such as CH:CHCH:CH, (CH2)4; L = alkylene or heteroalkylene linking group; X1 = O, NH], were prep'd for pharmaceutical use as mGluR1

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antagonists for treatment of migraine. Thus, quinazolinine II was prepd. in three steps, which included cyclization of 2-amino-5-methoxybenzoic acid with formamidine to form 6-methoxy-4(1H)-quinazolinone, chlorination with phosphorus oxychloride to form 4-chloro-6-methoxyquinazoline followed by amination with 2-(2,6-dichlorobenzylthio)ethylamine. The prepd. pyrimidines were tested for mGluR1 and mGluR5 metabotropic glutamate receptor antagonist activity and were found to be 10 fold selective for the mGluR1 receptor.

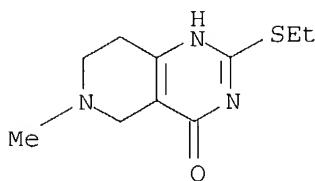
IT 1081-21-6P 338740-07-1P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(prepn. of heterocycles contg. a 4-substituted pyrimidine subunit for pharmaceutical use as mGluR1 antagonists for treatment of migraine)

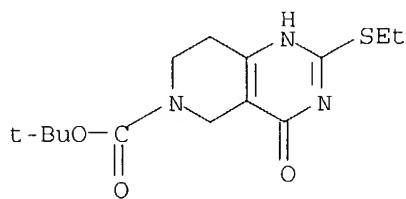
RN 1081-21-6 CAPLUS

CN Pyrido[4,3-d]pyrimidin-4(1H)-one, 2-(ethylthio)-5,6,7,8-tetrahydro-6-methyl- (9CI) (CA INDEX NAME)



RN 338740-07-1 CAPLUS

CN Pyrido[4,3-d]pyrimidine-6(4H)-carboxylic acid, 2-(ethylthio)-1,5,7,8-tetrahydro-4-oxo-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



L7 ANSWER 9 OF 48 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2001:77786 CAPLUS

DOCUMENT NUMBER: 134:266271

TITLE: Synthesis and transformations of pyrido[4,3-d]pyrimidines with N-heterocycles moieties

AUTHOR(S): Chowdhury, A. Z. M. Shaifullah; Shibata, Yasuyuki

CORPORATE SOURCE: Environmental Chemistry Division, National Institute for Environmental Studies, Tsukuba, 305-0053, Japan

SOURCE: Heterocycles (2001), 55(1), 115-125

CODEN: HTCYAM; ISSN: 0385-5414

PUBLISHER: Japan Institute of Heterocyclic Chemistry

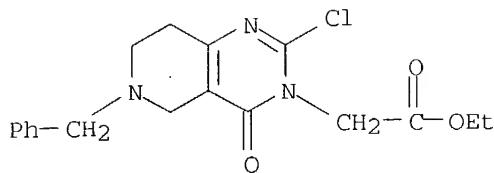
DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 134:266271

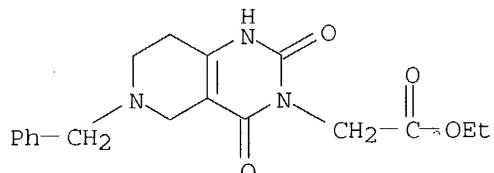
GI

10/634, 181



RN 332098-05-2 CAPLUS

CN Pyrido[4,3-d]pyrimidine-3(2H)-acetic acid, 1,4,5,6,7,8-hexahydro-2,4-dioxo-6-(phenylmethyl)-, ethyl ester (9CI) (CA INDEX NAME)

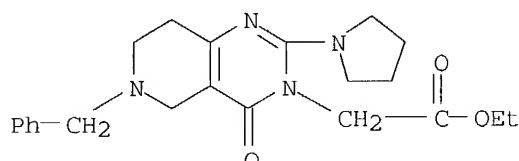


IT 332097-96-8P 332098-06-3P

RL: SPN (Synthetic preparation); PREP (Preparation)
(synthesis and transformations of pyrido[4,3-d]pyrimidines with
N-heterocyclic moieties)

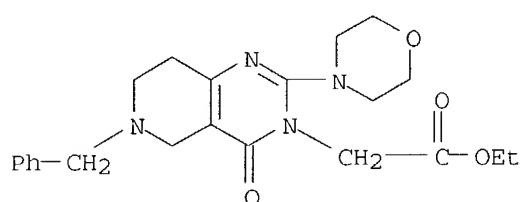
RN 332097-96-8 CAPLUS

CN Pyrido[4,3-d]pyrimidine-3(4H)-acetic acid, 5,6,7,8-tetrahydro-4-oxo-6-(phenylmethyl)-2-(1-pyrrolidinyl)-, ethyl ester (9CI) (CA INDEX NAME)



BRN 332098-06-3 CAPLUS

RN 532058-00-0 CACPS
CN Pyrido[4,3-d]pyrimidine-3(4H)-acetic acid, 5,6,7,8-tetrahydro-2-(4-morpholinyl)-4-oxo-6-(phenylmethyl)-, ethyl ester (9CI) (CA INDEX NAME)



REFERENCE COUNT:

15

THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

17 ANSWER 10 OF 48 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2000:475943 CPLUS

ACCESSION NUMBER: 2003.11.59
DOCUMENT NUMBER: 133:89540

DOCUMENT NUMBER: 155-05510
TITLE: Pyridopyrimidinones and benzisothiazole dioxides for use in the prophylaxis and therapy of cerebral

10/634,181

ischemia

INVENTOR(S) : Steiner, Gerd; Schellhaas, Kurt; Lubisch, Wilfried; Holzenkamp, Uta; Starck, Dorothea; Szabo, Laszlo; Emeling, Franz; Garcia-Ladona, Francisco Javi; Hofmann, Hans-Peter; Unger, Liliane

PATENT ASSIGNEE(S) : BASF A.-G., Germany

SOURCE: Ger. Offen., 90 pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent

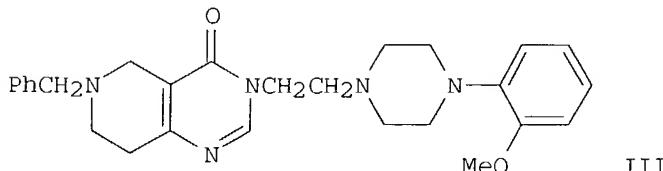
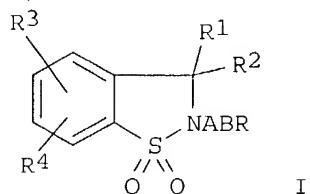
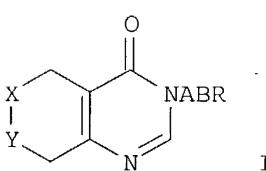
LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19900544	A1	20000713	DE 1999-19900544	19990111
CA 2359390	AA	20000720	CA 1999-2359390	19991222
WO 2000041697	A1	20000720	WO 1999-EP10275	19991222
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
EP 1140099	A1	20011010	EP 1999-966990	19991222
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
BR 9916888	A	20011120	BR 1999-16888	19991222
JP 2002534467	T2	20021015	JP 2000-593308	19991222
ZA 2001005473	A	20021003	ZA 2001-5473	20010703
NO 2001003408	A	20010821	NO 2001-3408	20010710
BG 105688	A	20020228	BG 2001-105688	20010710
PRIORITY APPLN. INFO.:			DE 1999-19900544 A	19990111
			WO 1999-EP10275 W	19991222

OTHER SOURCE(S) : MARPAT 133:89540
GI



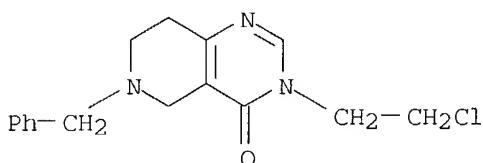
AB Title compds. I and II [A = substituted alkylene, alkenylene; B = 4-substituted piperidino, 1,2,3,6-tetrahydropyridino, piperazino, or their 7-membered analogs; R = (un)substituted Ph, naphthyl, indanyl, anthryl, heteroarom.; X = CH₂, Y = (un)substituted NH; X = (un)substituted NH, Y = CH₂; R₁, R₂ = alkyl; R₃, R₄ = H, (un)substituted alkyl, NH₂, CO₂H, OH, alkoxy, F, Cl, Br, I, CF₃, NO₂, CN, pyrrolyl, (un)substituted phenylalkyl] were prepd. for use in treating cerebral ischemia and stroke (no data). Thus, Me N-benzyl-4-oxo-3-piperidinecarboxylate was treated with formamidine hydrochloride to give 3,5,7,8-tetrahydro-4-oxo-6-benzylpyrido[4,3-d]pyrimidine which was treated with 1-(2-methoxyphenyl)-4-(2-chloroethyl)piperazine to give the title compd. III.

IT 223609-15-2

RL: RCT (Reactant); RACT (Reactant or reagent)
(prepn. of pyridopyrimidinones and benzisothiazole dioxides for use in the prophylaxis and therapy of cerebral ischemia)

RN 223609-15-2 CAPLUS

CN Pyrido[4,3-d]pyrimidin-4(3H)-one, 3-(2-chloroethyl)-5,6,7,8-tetrahydro-6-(phenylmethyl)- (9CI) (CA INDEX NAME)

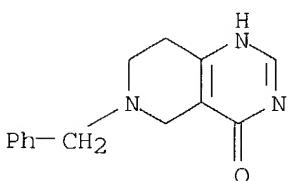


IT 109229-22-3P 223609-09-4P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. of pyridopyrimidinones and benzisothiazole dioxides for use in the prophylaxis and therapy of cerebral ischemia)

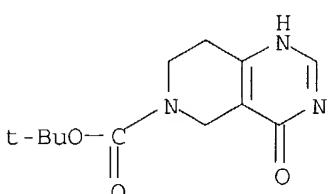
RN 109229-22-3 CAPLUS

CN Pyrido[4,3-d]pyrimidin-4(1H)-one, 5,6,7,8-tetrahydro-6-(phenylmethyl)- (9CI) (CA INDEX NAME)



RN 223609-09-4 CAPLUS

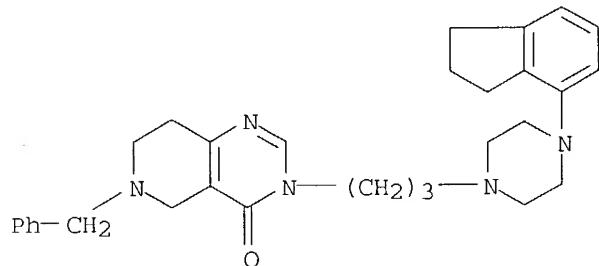
CN Pyrido[4,3-d]pyrimidine-6(4H)-carboxylic acid, 1,5,7,8-tetrahydro-4-oxo-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



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RN 281659-56-1 CAPLUS

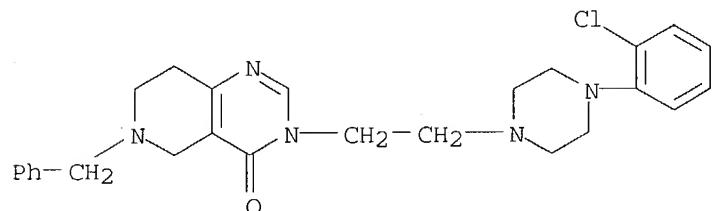
CN Pyrido[4,3-d]pyrimidin-4(3H)-one, 3-[3-[4-(2,3-dihydro-1H-inden-4-yl)-1-piperazinyl]propyl]-5,6,7,8-tetrahydro-6-(phenylmethyl)-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 281659-57-2 CAPLUS

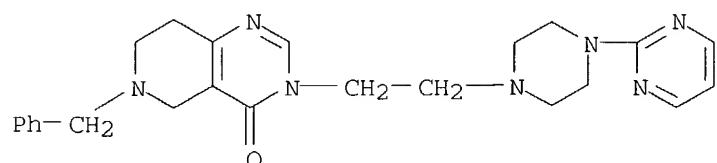
CN Pyrido[4,3-d]pyrimidin-4(3H)-one, 3-[2-[4-(2-chlorophenyl)-1-piperazinyl]ethyl]-5,6,7,8-tetrahydro-6-(phenylmethyl)-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 281659-58-3 CAPLUS

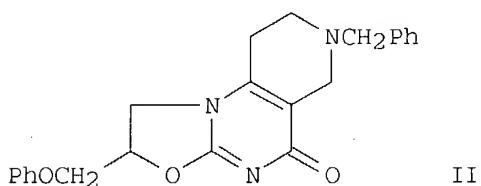
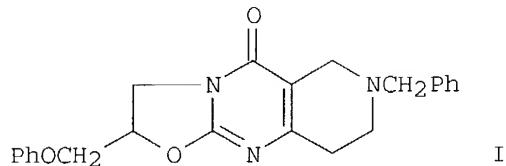
CN Pyrido[4,3-d]pyrimidin-4(3H)-one, 5,6,7,8-tetrahydro-6-(phenylmethyl)-3-[2-[4-(2-pyrimidinyl)-1-piperazinyl]ethyl]-, monohydrochloride (9CI) (CA INDEX NAME)



HCl

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ACCESSION NUMBER: 1999:684900 CAPLUS
DOCUMENT NUMBER: 132:49943
TITLE: Reaction between 5-(phenoxyethyl)-2-amino-2-oxazoline and N-benzyl-3-(ethoxycarbonyl)-4-piperidinone hydrochloride: a structural investigation
AUTHOR(S): Forfar, Isabelle; Jarry, Christian; Laguerre, Michel; Leger, Jean-Michel; Pianet, Isabelle
CORPORATE SOURCE: Laboratoire de Chimie Physique et Minerale, Universite Victor Segalen Bordeaux 2 - 146, Bordeaux, 33076, Fr.
SOURCE: Tetrahedron (1999), 55(44), 12819-12828
CODEN: TETRAB; ISSN: 0040-4020
PUBLISHER: Elsevier Science Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 132:49943
GI



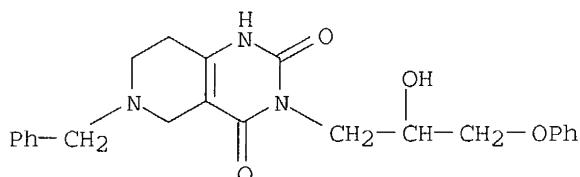
AB The title reaction gave oxazolopyridopyrimidinones I and II. Their structures were assigned by comparison of two dimensional NMR spectra (HMBC, NOESY) with the results obtained from theor. calcns. The structure of one related hydrolysis product was established by x-ray crystallog., further confirming the structure assignment.

IT 252911-44-7P

RL: SPN (Synthetic preparation); PREP (Preparation)
(isomeric oxazolopyridopyrimidinones by cyclocondensation of
(phenoxyethyl)oxazolinamine with oxopiperidinecarboxylate)

RN 252911-44-7 CAPLUS

CN Pyrido[4,3-d]pyrimidine-2,4(1H,3H)-dione, 5,6,7,8-tetrahydro-3-(2-hydroxy-3-phenoxypropyl)-6-(phenylmethyl)- (9CI) (CA INDEX NAME)



REFERENCE COUNT:

17

THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

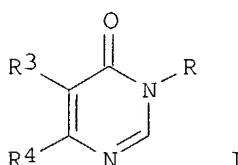
10/634,181

L7 ANSWER 12 OF 48 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1999:286205 CAPLUS
DOCUMENT NUMBER: 130:311811
TITLE: Preparation of pyridopyrimidinones as serotonin
reuptake inhibitors
INVENTOR(S): Lubisch, Wilfried; Dullweber, Uta; Starck, Dorothea;
Steiner, Gerd; Bach, Alfred; Emling, Franz;
Garcia-Ladona, Francisco Javier; Teschendorf,
Hans-Juergen; Wicke, Karsten
PATENT ASSIGNEE(S): BASF A.-G., Germany
SOURCE: Ger. Offen., 38 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19747063	A1	19990429	DE 1997-19747063	19971024
CA 2305258	AA	19990506	CA 1998-2305258	19981005
WO 9921857	A1	19990506	WO 1998-EP6305	19981005
W: AL, AU, BG, BR, BY, CA, CN, CZ, GE, HR, HU, ID, IL, JP, KR, KZ, LT, LV, MK, MX, NO, NZ, PL, RO, RU, SG, SI, SK, TR, UA, US, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
AU 9897484	A1	19990517	AU 1998-97484	19981005
AU 748666	B2	20020606		
BR 9812970	A	20000808	BR 1998-12970	19981005
EP 1025100	A1	20000809	EP 1998-951491	19981005
EP 1025100	B1	20020123		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE, SI, FI, RO				
NZ 503486	A	20010427	NZ 1998-503486	19981005
JP 2001521035	T2	20011106	JP 2000-517967	19981005
AT 212346	E	20020215	AT 1998-951491	19981005
PT 1025100	T	20020731	PT 1998-98951491	19981005
ES 2172222	T3	20020916	ES 1998-951491	19981005
TW 432063	B	20010501	TW 1998-87117332	19981020
ZA 9809664	A	20000425	ZA 1998-9664	19981023
MX 200002601	A	20001109	MX 2000-2601	20000315
BG 104291	A	20010531	BG 2000-104291	20000403
US 6414157	B1	20020702	US 2000-529231	20000410
NO 2000001934	A	20000413	NO 2000-1934	20000413
PRIORITY APPLN. INFO.:			DE 1997-19747063 A	19971024
			WO 1998-EP6305 W	19981005

OTHER SOURCE(S): MARPAT 130:311811

GI



AB Title compds. [I; R = Z1Z2R5; R3R4 = CH2CH2NR1CH2 or CH2NR1CH2CH2; R1 = H, (phenyl)alkyl, alkanoyl, etc.; R5 = (hetero)aryl; Z1 =

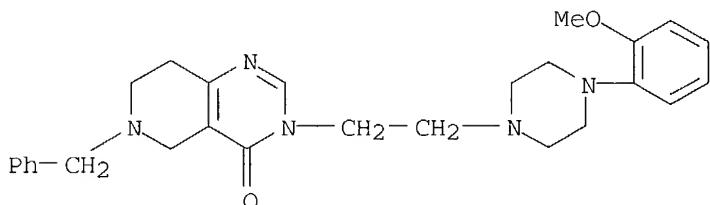
(heteroatom-interrupted) alkylene or alkenylene; Z2 = 1,n-azacycloalkylene) were prepd. as serotonin reuptake inhibitors (no data). Thus, Me N-benzyl-4-piperidone-3-carboxylate was cyclocondensed with H2NC(:NH)H and the product condensed with ClCH2CH2z2C6H4(OMe)-2 (Z2 = 1,4-piperazinediyl) (prepn. given) to give I [R = CH2CH2Z2C6H4(OMe)-2, R3R4 = CH2N(CH2Ph)CH2CH2, Z2 = 1,4-piperazinediyl].

IT 223609-00-5P 223609-02-7P 223609-04-9P
 223609-05-0P 223609-06-1P 223609-07-2P
 223609-08-3P 223609-14-1P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (prepn. of pyridopyrimidinones as serotonin reuptake inhibitors)

RN 223609-00-5 CAPPLUS

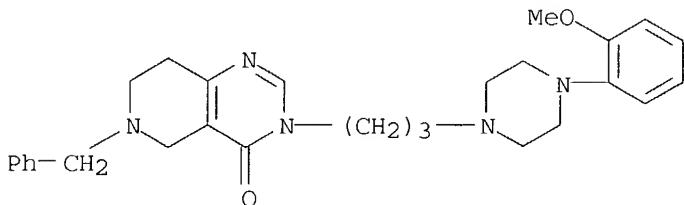
CN Pyrido[4,3-d]pyrimidin-4(3H)-one, 5,6,7,8-tetrahydro-3-[2-[4-(2-methoxyphenyl)-1-piperazinyl]ethyl]-6-(phenylmethyl)-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

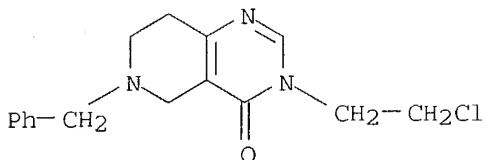
RN 223609-02-7 CAPPLUS

CN Pyrido[4,3-d]pyrimidin-4(3H)-one, 5,6,7,8-tetrahydro-3-[3-[4-(2-methoxyphenyl)-1-piperazinyl]propyl]-6-(phenylmethyl)- (9CI) (CA INDEX NAME)



RN 223609-04-9 CAPPLUS

CN Pyrido[4,3-d]pyrimidine-6(4H)-carboxylic acid, 3,5,7,8-tetrahydro-3-[2-[4-(1-naphthalenyl)-1-piperazinyl]ethyl]-4-oxo-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

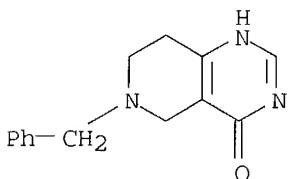


IT 109229-22-3P 223609-09-4P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. of pyridopyrimidinones as serotonin reuptake inhibitors)

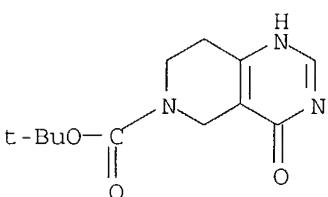
RN 109229-22-3 CAPLUS

CN Pyrido[4,3-d]pyrimidin-4(1H)-one, 5,6,7,8-tetrahydro-6-(phenylmethyl)- (9CI) (CA INDEX NAME)



RN 223609-09-4 CAPLUS

CN Pyrido[4,3-d]pyrimidine-6(4H)-carboxylic acid, 1,5,7,8-tetrahydro-4-oxo-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



L7 ANSWER 13 OF 48 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1999:27845 CAPLUS

DOCUMENT NUMBER: 130:95849

TITLE: Dipeptide derivatives as growth hormone secretagogues
INVENTOR(S): Carpino, Philip Albert; Griffith, David Andrew;

Lefker, Bruce Allen

PATENT ASSIGNEE(S): Pfizer Inc., USA

SOURCE: PCT Int. Appl., 246 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 9858947	A1	19981230	WO 1998-IB873	19980605
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W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ,
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PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG,
 US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
 RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES,
 FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI,
 CM, GA, GN, ML, MR, NE, SN, TD, TG
 AU 9874454 A1 19990104 AU 1998-74454 19980605
 EP 1001970 A1 20000524 EP 1998-921680 19980605
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE, FI
 JP 2000516639 T2 20001212 JP 1999-504026 19980605
 US 6251902 B1 20010626 US 1999-380887 19990908
 US 2001041703 A1 20011115 US 2001-822738 20010330
 US 6525047 B2 20030225
 US 2002002165 A1 20020103 US 2001-822109 20010330
 US 6429313 B2 20020806
 US 2002042415 A1 20020411 US 2001-822095 20010330
 US 6432945 B2 20020813
 US 2002065284 A1 20020530 US 2001-823051 20010330
 US 6433171 B2 20020813
 US 2003216399 A1 20031120 US 2003-371315 20030221
 US 2004006063 A1 20040108 US 2003-371330 20030221
 US 2004009984 A1 20040115 US 2003-371953 20030221
 PRIORITY APPLN. INFO.: US 1997-50764P P 19970625
 WO 1998-IB873 W 19980605
 US 1999-380887 A3 19990908
 US 2001-822738 A3 20010330

OTHER SOURCE(S): MARPAT 130:95849

AB Dipeptide derivs. HET-COCR3R4NX4CO-R6-NR7R8 [HET is a heterocyclic moiety; R3 = certain (un)substituted ring systems (A1), alkyl, A1-alkyl, etc.; R4 = H, alkyl, cycloalkyl or CR3R4 is a ring system; X4 is H, alkyl, or X4 and R4 form a ring; R6 is a bond or Z1(CH2)aCX5X5a(CH2)b, where a and b are 0-3, X5 and X5a are H, CF3, A1, (un)substituted alkyl or CX5X5a is a ring or the carbon atom bearing X5 and X5a forms one or two alkylene bridges with the nitrogen atom bearing R7 and R8, Z1 = bond, O, NH or imino group; R7, R8 = H, (un)substituted alkyl or R7R8N forms a ring] were prepd. as growth hormone secretagogues. Thus, 2-amino-N-[2-(8a(S)-benzyl-3-oxotetrahydrooxazolo[3,4-a]pyrazin-7-yl)-1(R)-(3,5-dichlorobenzylloxymethyl)-2-oxoethyl]-2-methylpropionamide hydrochloride was prepd. from 1,2,4-piperazinetricarboxylic acid 1-benzyl 4-tert-Bu 2-Me ester, N-tert-butoxycarbonyl-.alpha.-methylalanine, N-tert-butoxy-D-serine, and 1,3-dichloro-5-chloromethylbenzene.

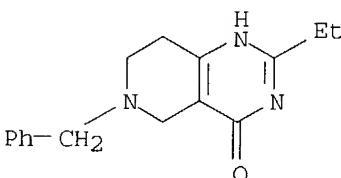
IT 1033-32-5P 218953-13-0P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(prepn. of dipeptide derivs. as growth hormone secretagogues)

RN 1033-32-5 CAPLUS

CN Pyrido[4,3-d]pyrimidin-4(1H)-one, 2-ethyl-5,6,7,8-tetrahydro-6-(phenylmethyl)- (9CI) (CA INDEX NAME)

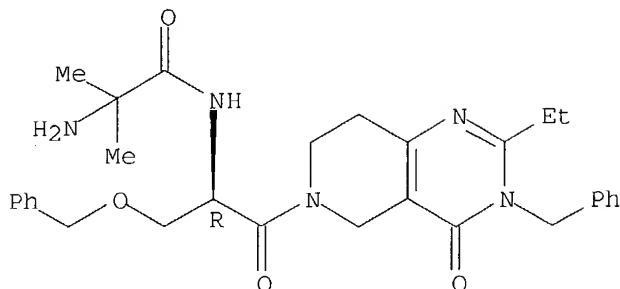


RN 218953-13-0 CAPLUS

CN Carbamic acid, [2-[(1R)-2-[(2-ethyl-1,5,7,8-tetrahydro-4-oxopyrido[4,3-d]pyrimidin-6(4H)-yl)-2-oxo-1-[(phenylmethoxy)methyl]ethyl]amino]-1,1-dimethyl-2-oxoethyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

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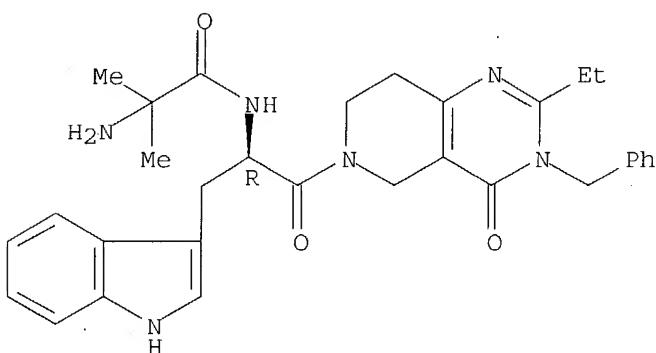
Absolute stereochemistry.



RN 218951-83-8 CAPLUS

CN Propanamide, 2-amino-N-[(1R)-2-[2-ethyl-3,4,7,8-tetrahydro-4-oxo-3-(phenylmethyl)pyrido[4,3-d]pyrimidin-6(5H)-yl]-1-(1H-indol-3-ylmethyl)-2-oxoethyl]-2-methyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT:

3

THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 14 OF 48 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1998:792127 CAPLUS

DOCUMENT NUMBER: 130:81147

TITLE: Electron impact mass spectrometric studies of 2-methyl, 2-phenyl, 2-(1-piperidyl), and 2-(2/3/4-pyridyl) piperidino- and pyrido[4,3-d]pyrimidin-4-ones

AUTHOR(S): Oksman, Pentti; Pihlaja, Kalevi; Fulop, Ferenc; Huber, Imre; Bernath, Gabor; Karelson, Mati; Perkson, Antti

CORPORATE SOURCE: Department of Chemistry, University of Turku, Turku, FIN-20014, Finland

SOURCE: Rapid Communications in Mass Spectrometry (1998), 12(23), 1845-1858

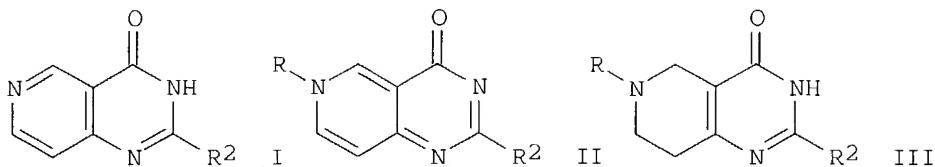
CODEN: RCMSEF; ISSN: 0951-4198

PUBLISHER: John Wiley & Sons Ltd.

DOCUMENT TYPE: Journal

LANGUAGE: English

GI



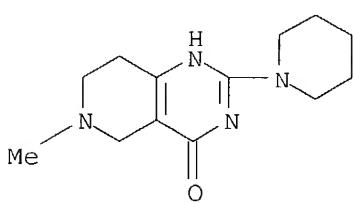
AB The title compds. (I, II, III; R = H, Me, Bn; R2 = Me, Ph, piperidyl, pyridyl) were investigated to characterize their structure and fragmentation mechanisms by EI electron impact mass spectrometry (EI-MS) and collisionally activated decomprn. The results obtained on magnetic sector instruments show that the compds. fragment similarly whether the substituent at C-2 is Ph or 3/4-pyridyl. If, however, it is Me, 2-pyridyl or 1-piperidyl, the balance of fragmentations is different. All the studied compds. are stable and give an intense mol. ion peak. A great difference exists between the fragmentation patterns of the piperidino compds. and those of the more aromatized pyrido compds. The loss of hydrogen aromatizes the piperidino derivs. to some extent, esp. the 2-(2-pyridyl)-substituted compds., forcing them towards a more planar structure. In 2-(2-pyridyl) derivs. an intramol. hydrogen bond between the 3N-H and the 2-pyridyl nitrogen atoms strengthens the effect. Deuterated analogs were used to clarify hydrogen rearrangements and to confirm ion structures. Semiempirical AM1 calcns. were carried out on 70 tautomeric model structures. The results are not in contrast to the MS results and they support, e.g., the proposed intramol. hydrogen bonding between the 3N-H and the 2-(2-pyridyl) nitrogen.

IT 1026-13-7 1047-48-9 1047-49-0
 1448-40-4 139452-52-1 139452-53-2
 218955-10-3 218955-11-4 218955-12-5
 218955-18-1 218955-19-2

RL: PRP (Properties)
 (AM1-calcd. .DELTA.Hf0, IP, .mu.; electron impact mass spectrometric studies of 2-Me, 2-Ph, 2-(1-piperidyl), and 2-(2/3/4-pyridyl) piperidino- and pyrido[4,3-d]pyrimidin-4-ones)

RN 1026-13-7 CAPLUS

CN Pyrido[4,3-d]pyrimidin-4(1H)-one, 5,6,7,8-tetrahydro-6-methyl-2-(1-piperidinyl)- (9CI) (CA INDEX NAME)



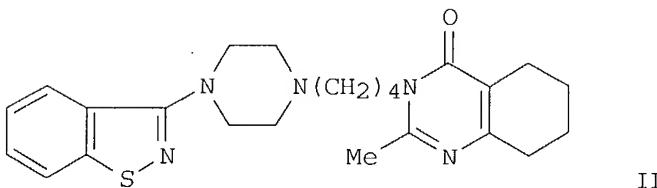
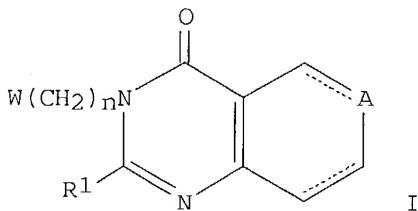
RN 1047-48-9 CAPLUS

CN Pyrido[4,3-d]pyrimidin-4(1H)-one, 5,6,7,8-tetrahydro-2-phenyl-6-(phenylmethyl)- (9CI) (CA INDEX NAME)

REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 15 OF 48 CAPLUS COPYRIGHT 2004 ACS on STN
 ACCESSION NUMBER: 1996:294880 CAPLUS
 DOCUMENT NUMBER: 124:343322
 TITLE: Preparation of quinazolinone derivatives as antipsychotics with weak extrapyramidal effects
 INVENTOR(S): Fukuda, Yoshimasa; Nakatani, Juko; Hasegawa, Toshibumi; Myashiro, Mio; Yamashita, Noryuki
 PATENT ASSIGNEE(S): Meiji Seika Co, Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 10 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 08027149	A2	19960130	JP 1994-157624	19940708
PRIORITY APPLN. INFO.:			JP 1994-157624	19940708
OTHER SOURCE(S):		MARPAT 124:343322		
GI				



AB The title compds. I [n = 1 - 5; R1 = H, methyl; dotted line indicates single or double bond; A = CH2, NR3 (R3 = H, etc.), CH, N; W = heterocyclic moiety (structures given)] are prep'd. In a test for antipsychotic effect using mice, the title compd. II (prepn. given) showed ED50 of 0.38 mg/Kg i.p., vs. ED50 of 0.16 mg/Kg i.p for haloperidol, and ED50 of 1.05 mg/Kg i.p for chlorpromazine. In a test for cataleptogenic effects using mice, II showed ED50 of 38.4 mg/Kg i.p., vs. ED50 of 1.3 mg/Kg i.p for haloperidol, and ED50 of 6.2 mg/Kg i.p for chlorpromazine.

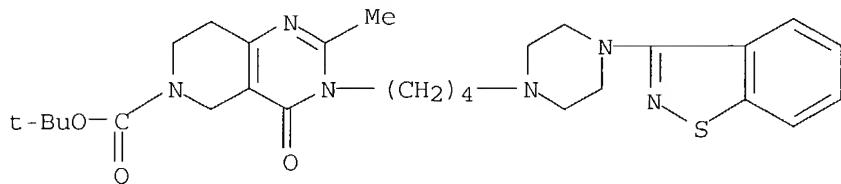
IT 176493-86-0P
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (prepn. of quinazolinone derivs. as antipsychotics with weak extrapyramidal effects)

RN 176493-86-0 CAPLUS

CN Pyrido[4,3-d]pyrimidine-6(4H)-carboxylic acid, 3-[4-[4-(1,2-benzisothiazol-

10/634,181

3-yl)-1-piperazinyl]butyl]-3,5,7,8-tetrahydro-2-methyl-4-oxo-,
1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

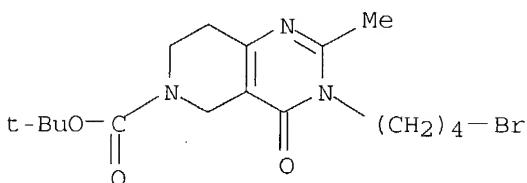


IT 176493-89-3

RL: RCT (Reactant); RACT (Reactant or reagent)
(prepn. of quinazolinone derivs. as antipsychotics with weak
extrapyramidal effects)

RN 176493-89-3 CAPLUS

CN Pyrido[4,3-d]pyrimidine-6(4H)-carboxylic acid, 3-(4-bromobutyl)-3,5,7,8-tetrahydro-2-methyl-4-oxo-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



L7 ANSWER 16 OF 48 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1996:241543 CAPLUS

DOCUMENT NUMBER: 124:289272

TITLE: Preparation and formulation of
terahydropyridopyrimidinone derivatives as ulcer
inhibitors

INVENTOR(S): Kawase, Akito; Shimamura, Hiroshi; Terajima, Koji;
Ishizuka, Yasuhiro; Kamisaki, Toshiaki

PATENT ASSIGNEE(S): Morishita Pharma, Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 10 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

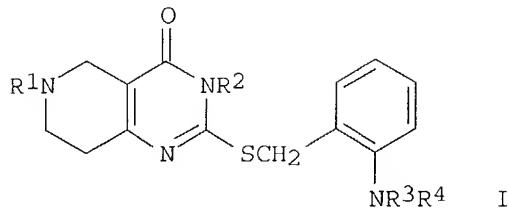
LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 07330769	A2	19951219	JP 1994-142474	19940531
PRIORITY APPLN. INFO.:			JP 1994-142474	19940531
OTHER SOURCE(S):		MARPAT 124:289272		

GI



AB The title compds. I [R1 = H, alkyl, etc.; R2 = H, alkyl; R3, R4 = alkyl] are claimed. I [R1 = R3 = R4 = methyl; R2 = H] (NMR data given) at 15 mg/Kg orally gave 98.8% inhibition of indomethacin-induced stomach ulcer in rats, vs. 58.9% inhibition by cimetidine at 100 mg/kg.

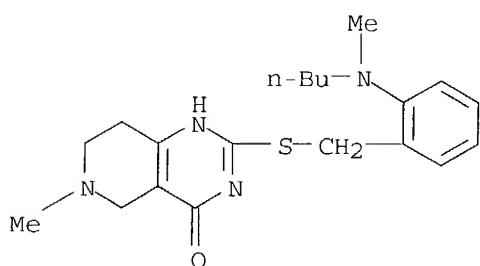
IT 175595-62-7P 175595-63-8P 175595-64-9P
 175595-65-0P 175595-66-1P 175595-67-2P
 175595-68-3P 175595-69-4P 175595-74-1P
 175595-75-2P 175595-76-3P 175595-77-4P
 175595-78-5P 175595-79-6P 175595-80-9P
 175595-81-0P 175595-82-1P 175595-83-2P
 175595-84-3P 175595-85-4P 175595-86-5P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of terahydropyridopyrimidinone derivs. as ulcer inhibitors)

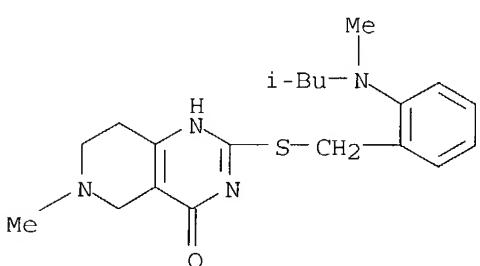
RN 175595-62-7 CAPPLUS

CN Pyrido[4,3-d]pyrimidin-4(1H)-one, 2-[[2-(butylmethylamino)phenyl]methyl]thio]-5,6,7,8-tetrahydro-6-methyl- (9CI) (CA INDEX NAME)



RN 175595-63-8 CAPPLUS

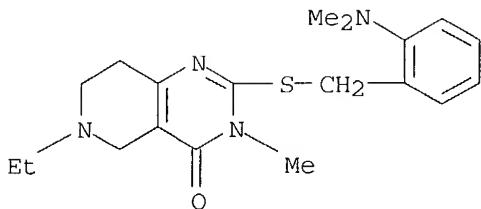
CN Pyrido[4,3-d]pyrimidin-4(1H)-one, 5,6,7,8-tetrahydro-6-methyl-2-[[2-(methyl(2-methylpropyl)amino)phenyl]methyl]thio]- (9CI) (CA INDEX NAME)



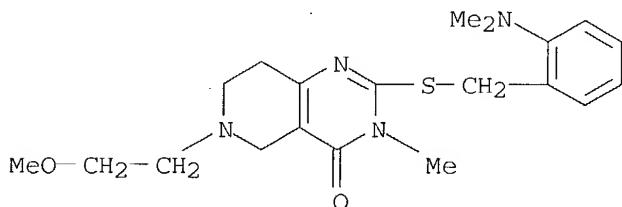
RN 175595-64-9 CAPPLUS

CN Pyrido[4,3-d]pyrimidin-4(1H)-one, 2-[[2-(dimethylamino)phenyl]methyl]thio]-5,6,7,8-tetrahydro-6-methyl- (9CI) (CA INDEX NAME)

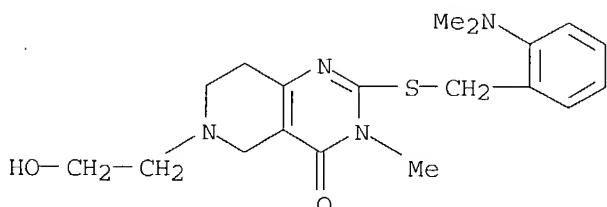
10/634, 181



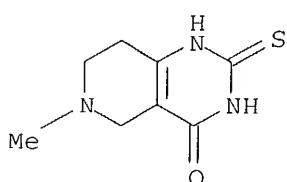
RN 175595-85-4 CAPLUS
CN Pyrido[4,3-d]pyrimidin-4(3H)-one, 2-[[2-(dimethylamino)phenyl]methyl]thio-5,6,7,8-tetrahydro-6-(2-methoxyethyl)-3-methyl- (9CI) (CA INDEX NAME)



RN 175595-86-5 CAPLUS
CN Pyrido[4,3-d]pyrimidin-4(3H)-one, 2-[[2-(dimethylamino)phenyl]methyl]thio-5,6,7,8-tetrahydro-6-(2-hydroxyethyl)-3-methyl- (9CI) (CA INDEX NAME)



IT 154115-14-7P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. of terahydropyridopyrimidinone derivs. as ulcer inhibitors)
RN 154115-14-7 CAPLUS
CN Pyrido[4,3-d]pyrimidin-4(1H)-one, 2,3,5,6,7,8-hexahydro-6-methyl-2-thioxo- (9CI) (CA INDEX NAME)



TITLE: Synthesis and antifolate activity of
 2,4-diamino-5,6,7,8-tetrahydropyrido[4,3-d]pyrimidine
 analogs of trimetrexate and piritrexim
 AUTHOR(S): Rosowsky, Andre; Mota, Clara E.; Queener, Sherry F.
 CORPORATE SOURCE: Dana-Farber Cancer Inst. Dep. Biol. Chem. Mol.
 Pharmacol., Harvard Med. Sch., Boston, MA, 02115, USA
 SOURCE: Journal of Heterocyclic Chemistry (1995), 32(1),
 335-40
 CODEN: JHTCAD; ISSN: 0022-152X
 PUBLISHER: HeteroCorporation
 DOCUMENT TYPE: Journal
 LANGUAGE: English

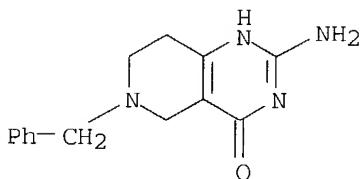
AB Some (dimethoxyphenyl)- and (trimethoxyphenyl)-substituted
 2,4-diamino-5,6,7,8-tetrahydropyrido[4,3-d]pyrimidines were prep'd. An
 improved method of prepn. of 2,4-diamino-5,6,7,8-tetrahydropyrido[4,3-
 d]pyrimidine from 2-amino-6-benzyl-5,6,7,8-tetrahydropyrido[4,3-
 d]pyrimidin-4(3H)-one was developed. In assays of the ability of the
 products to inhibit dihydrofolate reductase from *Pneumocystis carinii*, and
Toxoplasma gondii the most active compd. was 2,4-diamino-6-(2'-bromo-
 3',4',5'-trimethoxybenzyl)-5,6,7,8-tetrahydropyrido[4,3-d]pyrimidine.
 2',5'-Dimethoxybenzyl analogs were less active than the corresponding
 3',4',5'-trimethoxybenzyl analogs, and compds. with a CH₂CH₂ or CH₂CH₂CH₂
 bridge were less active than those with a CH₂ bridge.
 2,4-Diamino-6-(2'-bromo-3',4',5'-trimethoxybenzyl)-5,6,7,8-
 tetrahydropyrido[4,3-d]pyrimidine showed greater selectivity than
 trimetrexate or piritrexim for the *P. carinii* and *T. gondii* enzyme, but
 was less selective than trimethoprim or pyrimethamine. However its molar
 potency against both enzymes was greater than that of trimethoprim, the
 antifolate most commonly used, in combination with sulfamethoxazole, for
 initial treatment of opportunistic *P. carinii* and *T. gondii* infections in
 patients with AIDS and other disorders of the immune system.

IT 1029-52-3

RL: RCT (Reactant); RACT (Reactant or reagent)
 (prep'n. and antifolate activity of pyrido[4,3-d]pyrimidine analogs of
 trimetrexate and piritrexim)

RN 1029-52-3 CAPLUS

CN Pyrido[4,3-d]pyrimidin-4(1H)-one, 2-amino-5,6,7,8-tetrahydro-6-
 (phenylmethyl)- (9CI) (CA INDEX NAME)

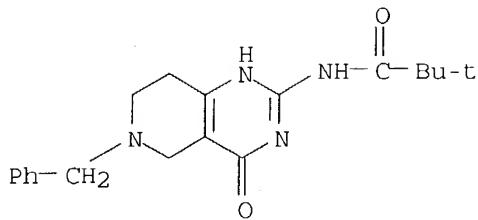


IT 162335-18-4P

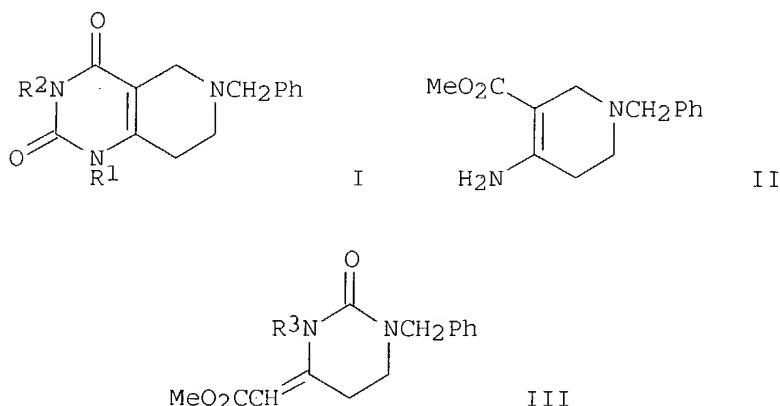
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (prep'n. and antifolate activity of pyrido[4,3-d]pyrimidine analogs of
 trimetrexate and piritrexim)

RN 162335-18-4 CAPLUS

CN Propanamide, N-[1,4,5,6,7,8-hexahydro-4-oxo-6-(phenylmethyl)pyrido[4,3-
 d]pyrimidin-2-yl]-2,2-dimethyl- (9CI) (CA INDEX NAME)



L7 ANSWER 18 OF 48 CAPLUS COPYRIGHT 2004 ACS on STN
 ACCESSION NUMBER: 1995:300856 CAPLUS
 DOCUMENT NUMBER: 122:133110
 TITLE: Conversion of 1-benzyl-4-aminotetrahydropyridine-3-carboxylic acid methyl ester to antithrombotic pyrido[4,3-d]pyrimidine-2,4-diones and to (2-oxotetrahydropyrimidin-4-ylidene)acetic acid methyl esters
 AUTHOR(S): Furrer, H.; Fehlbaber, H. W.; Wagner, R.
 CORPORATE SOURCE: Med. Chem., Hoechst AG Werk Kalle-Albert, Wiesbaden, D-65174, Germany
 SOURCE: Journal of Heterocyclic Chemistry (1994), 31(6), 1569-75
 PUBLISHER: HeteroCorporation
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 122:133110
 GI



AB Pyridopyrimidinedione I ($R_1 = H$, $R_2 = Me$) (2), a representative of new antithrombotic compds. with favorable cerebral and peripheral effects, has been synthesized from enamine II in good yield by two methods. The thermal fusion of II with ureas gave 2 and I ($R_1 = H$, $R_2 = Me$) and unexpectedly the esters (Z)-III ($R_3 = H$) (6) and (E)-III ($R_3 = Me$) (7). The structure of 6 was deduced from its spectroscopic properties and was proven by ozonolysis to cleavage products 1-benzylidihydropyrimidine-2,4-dione and OCH_2CO_2Me and by oxidative hydrolysis to 1-benzyl-4-methyl-1,2-dihydropyrimidin-2-one. The (Z)-configured 6 was converted to (E)-configurated 7 by methylation. The products I ($R_1 = Me$, $R_2 = H$, $R_1 = R_2 = H$) were synthesized by independent methods. Compd. 2 underwent

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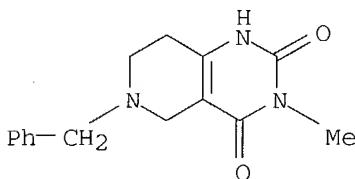
hydrogenolysis and subsequent N-methallylation.

IT 159660-87-4P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent)
(prepn. of antithrombotic pyridopyrimidinediones and
(oxotetrahydropyrimidinylidene)acetic acid esters)

RN 159660-87-4 CAPLUS

CN Pyrido[4,3-d]pyrimidine-2,4(1H,3H)-dione, 5,6,7,8-tetrahydro-3-methyl-6-(phenylmethyl)- (9CI) (CA INDEX NAME)

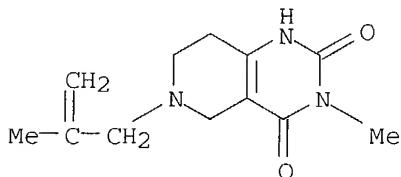


IT 159660-63-6P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(prepn. of antithrombotic pyridopyrimidinediones and
(oxotetrahydropyrimidinylidene)acetic acid esters)

RN 159660-63-6 CAPLUS

CN Pyrido[4,3-d]pyrimidine-2,4(1H,3H)-dione, 5,6,7,8-tetrahydro-3-methyl-6-(2-methyl-2-propenyl)-, monohydrochloride (9CI) (CA INDEX NAME)



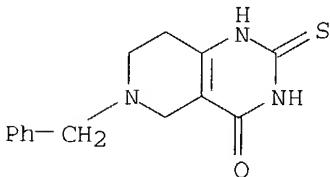
● HCl

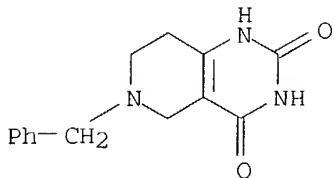
IT 67140-12-9

RL: RCT (Reactant); RACT (Reactant or reagent)
(prepn. of antithrombotic pyridopyrimidinediones and
(oxotetrahydropyrimidinylidene)acetic acid esters)

RN 67140-12-9 CAPLUS

CN Pyrido[4,3-d]pyrimidin-4(1H)-one, 2,3,5,6,7,8-hexahydro-6-(phenylmethyl)-2-thioxo- (9CI) (CA INDEX NAME)

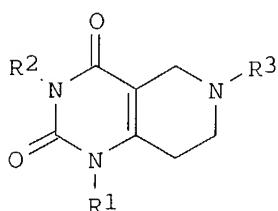




● HCl

L7 ANSWER 19 OF 48 CAPLUS COPYRIGHT 2004 ACS on STN
 ACCESSION NUMBER: 1995:248596 CAPLUS
 DOCUMENT NUMBER: 122:23846
 TITLE: Pyridopyrimidinediones, their preparation and use for treatment of circulatory and neurodegenerative disorders
 INVENTOR(S): Furrer, Harald; Seiffge, Dirk; Okyayuz-Baklouti, Ismahan; Grome, John Joseph
 PATENT ASSIGNEE(S): Hoechst A.-G., Germany
 SOURCE: Eur. Pat. Appl., 41 pp.
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 621037	A1	19941026	EP 1994-105958	19940418
EP 621037	B1	19990707		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, PT, SE AT 181832 ES 2134284 US 5556854 JP 06321944 JP 3483160	E T3 A A2 B2	19990715 19991001 19960917 19941122 20040106	AT 1994-105958 ES 1994-105958 US 1994-230811 JP 1994-106305	19940418 19940418 19940421 19940422
PRIORITY APPLN. INFO.:			DE 1993-4313317	A 19930423
OTHER SOURCE(S):		MARPAT 122:23846		
GI				



I

AB Pyridopyrimidinediones [I; R1 = R2, (substituted) alkenyl; R2 = H, alkyl, (substituted) benzyl; R3 = R1, cyclohexylmethyl, heterocyclylmethyl, carboxyalkyl, etc.] are prep'd. for use in treatment of circulatory and neurodegenerative disorders. Thus, I-HCl (R1 = R3 = H, R2 = Me) showed 33% inhibition of laser-induced thrombosis in rats at 10 mg orally.

10/634, 181

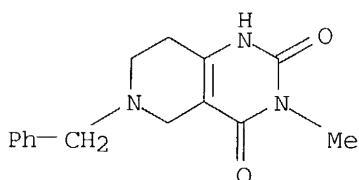
IT 159660-40-9P 159660-42-1P 159660-43-2P
159660-44-3P 159660-45-4P 159660-46-5P
159660-47-6P 159660-48-7P 159660-50-1P
159660-51-2P 159660-53-4P 159660-55-6P
159660-56-7P 159660-57-8P 159660-58-9P
159660-59-0P 159660-60-3P 159660-61-4P
159660-62-5P 159660-63-6P 159660-64-7P
159660-65-8P 159660-66-9P 159660-67-0P
159660-68-1P 159660-69-2P 159660-70-5P
159660-71-6P 159660-72-7P 159660-73-8P
159660-74-9P 159660-75-0P 159660-76-1P
159660-78-3P 159660-80-7P 159660-81-8P
159660-82-9P 159660-83-0P 159660-84-1P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(pyridopyrimidinedione prepn. and use for treatment of circulatory and neurodegenerative disorders)

RN 159660-40-9 CAPLUS

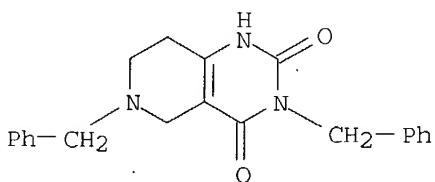
CN Pyrido[4,3-d]pyrimidine-2,4(1H,3H)-dione, 5,6,7,8-tetrahydro-3-methyl-6-(phenylmethyl)-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 159660-42-1 CAPLUS

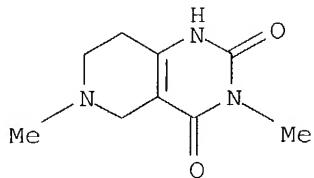
CN Pyrido[4,3-d]pyrimidine-2,4(1H,3H)-dione, 5,6,7,8-tetrahydro-3,6-bis(phenylmethyl)-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 159660-43-2 CAPLUS

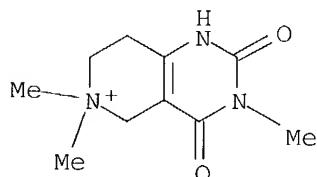
CN Pyrido[4,3-d]pyrimidine-6(2H)-acetic acid, 1,3,4,5,7,8-hexahydro-3-methyl-2,4-dioxo-.alpha.-phenyl-, ethyl ester, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 159660-98-7 CAPLUS

CN Pyrido[4,3-d]pyrimidinium, 1,2,3,4,5,6,7,8-octahydro-3,6,6-trimethyl-2,4-dioxo-, iodide (9CI) (CA INDEX NAME)

● I⁻

L7 ANSWER 20 OF 48 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1994:630784 CAPLUS

DOCUMENT NUMBER: 121:230784

TITLE: Preparation of 2-benzoylpyrimidine derivatives as herbicides and agrochemical fungicides

INVENTOR(S): Yamada, Hirokazu; Tanaka, Katsunori; Adachi, Hiroyuki; Yamada, Shigeo; Shimoda, Susumu

PATENT ASSIGNEE(S): Nippon Soda Co., Ltd., Japan

SOURCE: PCT Int. Appl., 200 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

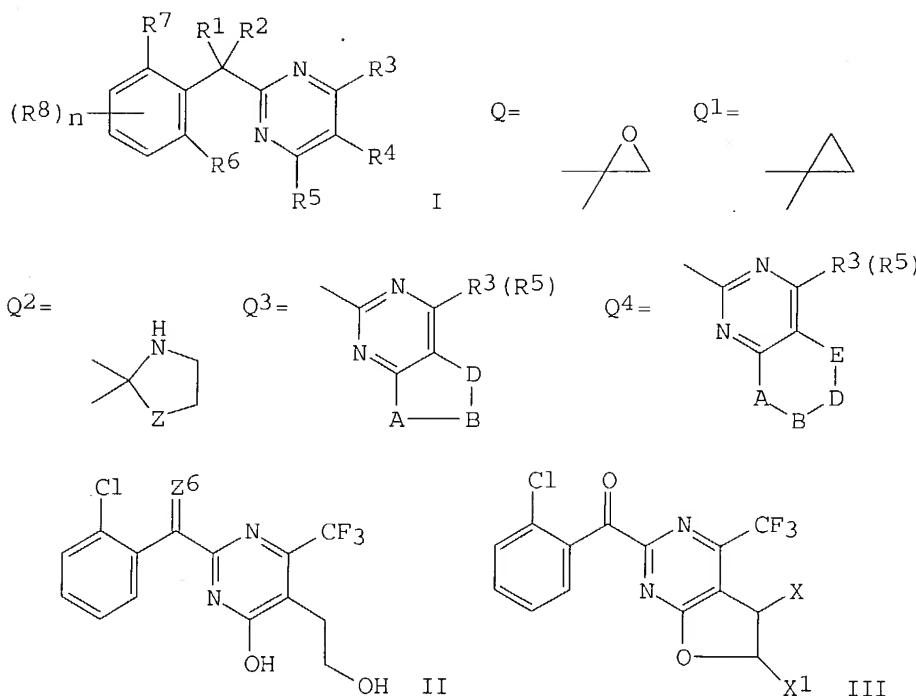
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9408975	A1	19940428	WO 1993-JP1478	19931014
W: AT, AU, BB, BG, BR, CA, CH, CZ, DE, DK, ES, FI, GB, HU, JP, KP, KR, LK, LU, MG, MN, MW, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SK, UA, US				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
AU 9351611	A1	19940509	AU 1993-51611	19931014
EP 665224	A1	19950802	EP 1993-922632	19931014
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
BR 9307264	A	19990511	BR 1993-7264	19931014
JP 07048359	A2	19950221	JP 1993-282006	19931015
CN 1098717	A	19950215	CN 1994-100163	19940110

PRIORITY APPLN. INFO.:

JP 1992-304622	19921016
JP 1993-28313	19930528
JP 1993-154303	19930601
WO 1993-JP1478	19931014

OTHER SOURCE(S):
GI

MARPAT 121:230784



AB The title compds. [I; $R^1, R^2 = H, \text{alkyl, alkenyl, alkynyl, Ph, cyano, CO}_2\text{H, alkoxy carbonyl, halo, (un)substituted OH or SH, NH}_2$, etc.; or alternatively $R^1 R^2 = \text{oxo, thioxo, cyclic ketal or thioketal, (un)substituted :CH}_2, :\text{NH, :NNH}_2$, or $:\text{NOH}$, or a spiro ring selected from among $Q - Q_2$ (wherein $Z = O, S, NH$); $R^3, R^5 = H, \text{halo, alkyl, alkenyl, alkynyl, Ph, cycloalkyl, (un)substituted NH}_2, \text{NNH}_2, \text{OH, CO}_2\text{H, or CONH}_2$, etc.; $R^4 = H, \text{halo, NH}_2, \text{cyano, alkyl, alkenyl, alkynyl, Ph, cycloalkyl, (un)substituted CO}_2\text{H, CONH}_2$, or OH , etc.; provided that R^3 and R^5 are different from each other when $R^4 = H$ and that R^4 may be combined with R^3 and R^5 and the pyrimidine ring to represent a condensed ring Q_3 or Q_4 [wherein at least one of A, B, D , and $E = \text{(un)substituted CH}_2$ or $NH, O, S(O)q$ (wherein $q = 0, 1, 2$), and the rest = $\text{(un)substituted CH}_2$]; $R^6, R^7 = H, \text{halo, NO}_2, \text{cyano, alkyl, alkenyl, alkynyl, Ph, cycloalkyl, (un)substituted CO}_2\text{H, CONH}_2$, or OH , etc.; provided that $R^6 = R^7$.noteq. H ; $R^8 = \text{any group listed in R6 and R7 except H; } n = 0, 1, 2, 3$; provided that when $R^1 = R^2 = H$, R^4 may be combined with R^3 and R^5 and the pyrimidine ring to represent a condensed ring Q_3 or Q_4] are prep'd. Thus, 5 g 2-(2-chlorophenyl)acetamidine hydrochloride and 5.3 g .alpha.-trifluoroacetyl-.gamma.-butyrolactone were added to a soln. of Na in EtOH and refluxed for 18 h to give 5.2 g benzylpyrimidine deriv. (II; $Z^6 = H_2$) which was refluxed with SeO_2 in aq. dioxane to give benzoylpyrimidine deriv. II ($Z^6 = O$). The latter compd. was refluxed with POCl_3 in toluene for 2 h to give 5,6-dihydrofuro[2,3-d]pyrimidine (III; $X = X^1 = H$) which was refluxed with NiO_2 in toluene for 5 h to give furo[2,3-d]pyrimidine

10/634, 181

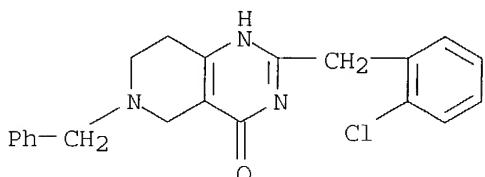
III (XX1 = bond). This compd. at 200/are preemergence controlled 100% Digitaria ciliaris, Setaria Faberii, and Amaranthus Blitum and at 200 ppm completely controlled Plasmopara viticola in grape vine leaves. A total of .apprx.400 g were prepd.

IT 158351-46-3P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (prepn. of, as herbicide and agrochem. fungicide)

RN 158351-46-3 CAPLUS

CN Pyrido[4,3-d]pyrimidin-4(1H)-one, 2-[(2-chlorophenyl)methyl]-5,6,7,8-tetrahydro-6-(phenylmethyl)- (9CI) (CA INDEX NAME)



L7 ANSWER 21 OF 48 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1994:426916 CAPLUS

DOCUMENT NUMBER: 121:26916

TITLE: Angiotensin II receptor-blocking 2,3,6-substituted 5,6,7,8-tetrahydropyrido(4,3)pyrimidin-4(3H)ones

INVENTOR(S): Newman, Howard

PATENT ASSIGNEE(S): American Cyanamid Co., USA

SOURCE: U.S., 8 pp.

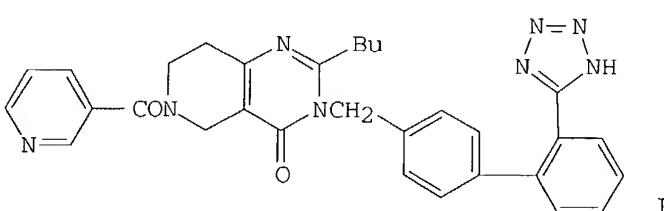
DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5296480	A	19940322	US 1993-52938	19930423
PRIORITY APPLN. INFO.:			US 1993-52938	19930423
OTHER SOURCE(S):		MARPAT 121:26916		
GI				



AB The title compds. are angiotensin-II antagonists and are therefore useful in alleviating angiotensin-induced hypertension and for treating congestive heart failure. For example, I was prepd. and showed in vitro IC50 value of 5.1.times.10⁻⁸ M for binding angiotensin II receptor.

IT 155827-74-0P 155827-76-2P 155827-78-4P

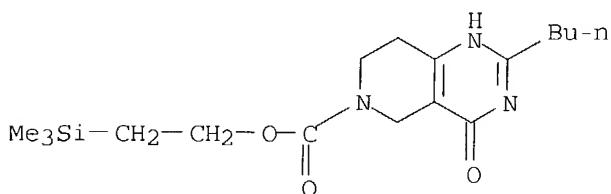
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT

(Reactant or reagent)

(prepn. and reaction of, in prepn. of angiotensin II receptor blocking agent)

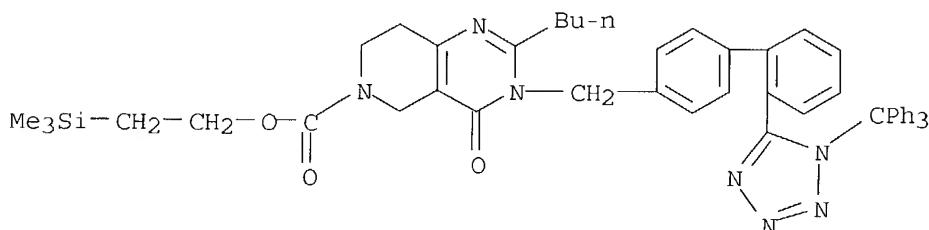
RN 155827-74-0 CAPLUS

CN Pyrido[4,3-d]pyrimidine-6(4H)-carboxylic acid, 2-butyl-1,5,7,8-tetrahydro-4-oxo-, 2-(trimethylsilyl)ethyl ester (9CI) (CA INDEX NAME)



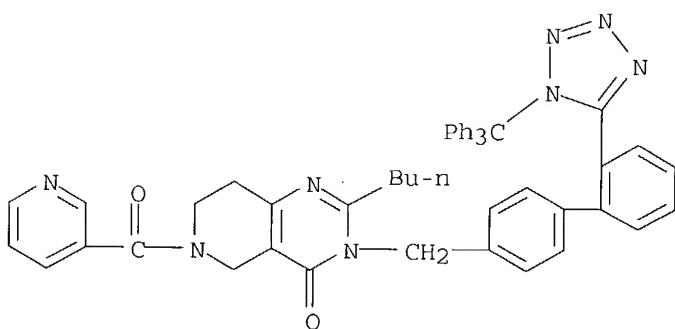
RN 155827-76-2 CAPLUS

CN Pyrido[4,3-d]pyrimidine-6(4H)-carboxylic acid, 2-butyl-3,5,7,8-tetrahydro-4-oxo-3-[[2'-(1-(triphenylmethyl)-1H-tetrazol-5-yl)[1,1'-biphenyl]-4-yl]methyl]-, 2-(trimethylsilyl)ethyl ester (9CI) (CA INDEX NAME)



RN 155827-78-4 CAPLUS

CN Pyrido[4,3-d]pyrimidin-4(3H)-one, 2-butyl-5,6,7,8-tetrahydro-6-(3-pyridinylcarbonyl)-3-[[2'-(1-(triphenylmethyl)-1H-tetrazol-5-yl)[1,1'-biphenyl]-4-yl]methyl] (9CI) (CA INDEX NAME)



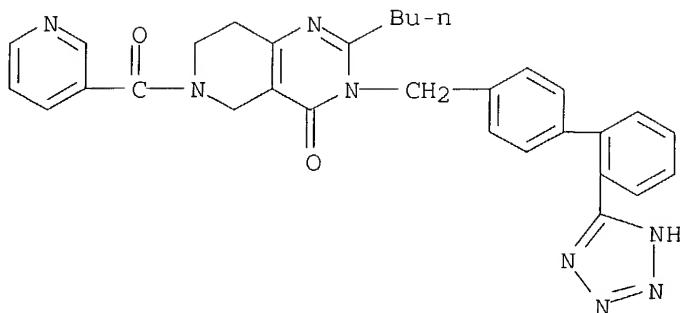
IT 155827-79-5P

RL: SPN (Synthetic preparation); PREP (Preparation)

(prepn. of, as angiotensin II receptor blocking agent)

RN 155827-79-5 CAPLUS

CN Pyrido[4,3-d]pyrimidin-4(3H)-one, 2-butyl-5,6,7,8-tetrahydro-6-(3-pyridinylcarbonyl)-3-[[2'-(1H-tetrazol-5-yl)[1,1'-biphenyl]-4-yl]methyl] (9CI) (CA INDEX NAME)



L7 ANSWER 22 OF 48 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1994:311346 CAPLUS

DOCUMENT NUMBER: 120:311346

TITLE: Treatment of direct-positive silver halide photographic material

INVENTOR(S): Yamamoto, Seiichi; Yoshida, Tetsuo

PATENT ASSIGNEE(S): Fuji Photo Film Co Ltd, Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 23 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

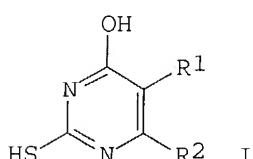
LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 05289257	A2	19931105	JP 1992-114174	19920408
PRIORITY APPLN. INFO.:			JP 1992-114174	19920408
OTHER SOURCE(S):		MARPAT 120:311346		

GI



AB The material, comprising a substrate coated with .gtoreq.1 of photosensitive Ag halide emulsion layers, is treated by a developer contg. a pyrimidine deriv. I (R1-2 = H, alkyl, aryl, alalkyl, OH, mercapto, CO2H, sulfo, phosphono, NH2, NO2, CN, halo, alkoxy carbonyl, aryloxycarbonyl, carbamoyl, sulfamoyl, alkoxy; R1 and R2 may form a ring).

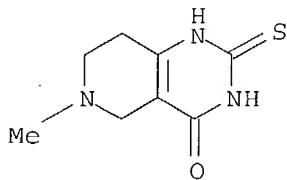
IT 154115-14-7

RL: USES (Uses)

(direct-pos. silver halide photog. developed with)

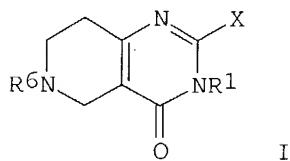
RN 154115-14-7 CAPLUS

CN Pyrido[4,3-d]pyrimidin-4(1H)-one, 2,3,5,6,7,8-hexahydro-6-methyl-2-thioxo-(9CI) (CA INDEX NAME)



L7 ANSWER 23 OF 48 CAPLUS COPYRIGHT 2004 ACS on STN
 ACCESSION NUMBER: 1994:270443 CAPLUS
 DOCUMENT NUMBER: 120:270443
 TITLE: Preparation of 6-acyl-3-biphenylmethyl-5,6,7,8-tetrahydropyrido[4,3-d]pyrimidin-4(3H)-ones as angiotensin II receptor antagonists
 INVENTOR(S): Newman, Howard
 PATENT ASSIGNEE(S): American Cyanamid Co., USA
 SOURCE: U.S., 10 pp.
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5281602	A	19940125	US 1993-52933	19930423
PRIORITY APPLN. INFO.:			US 1993-52933	19930423
OTHER SOURCE(S):		MARPAT 120:270443		
GI				



AB Title compds. [I; R1 = 2'-(1H-tetrazol-5-yl)-1,1'-biphenyl-4-ylmethyl] (II; R6 = CO2CH2Ph, COCMe3, Ac, COCMe2OH, COCH:CH2; X = alkyl) were prep'd. Thus, Et 1-(2-hydroxy-2-methyl-1-oxopropyl)-4-oxo-3-piperidinecarboxylate was cyclocondensed with BuC(:NH)NH2 (prepn. each given) to give I (R1 = H, R6 = COCMe2OH, X = Bu) which was condensed with 5-(4'-bromomethyl-1,1'-biphenyl-2-yl)-1-triphenylmethyl-1H-tetrazole to give, after deprotection, II (R6 = COCMe2OH, X = Bu). The latter gave 85% inhibition of angiotensin II-induced pressor response in rats at 15mg/kg i.v.

IT 154548-46-6P 154548-47-7P 154548-49-9P
 154548-50-2P 154548-52-4P 154548-53-5P
 154548-54-6P 154548-55-7P 154548-56-8P
 154548-57-9P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (prepn. and reaction of, in prepn. of angiotensin II antagonist)

RN 154548-46-6 CAPLUS

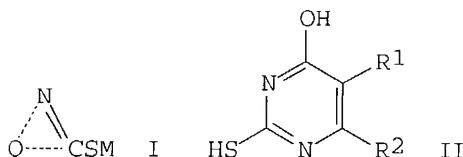
CN Pyrido[4,3-d]pyrimidine-6(4H)-carboxylic acid, 2-butyl-3,5,7,8-tetrahydro-4-oxo-, phenylmethyl ester (9CI) (CA INDEX NAME)

10/634,181

L7 ANSWER 24 OF 48 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1994:231865 CAPLUS
DOCUMENT NUMBER: 120:231865
TITLE: Development of silver halide photographic material
INVENTOR(S): Okamoto, Yasuhiro; Hirano, Mitsunori
PATENT ASSIGNEE(S): Fuji Photo Film Co Ltd, Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 26 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 05241281	A2	19930921	JP 1992-75697	19920227
PRIORITY APPLN. INFO.:			JP 1992-75697	19920227
OTHER SOURCE(S):		MARPAT 120:231865		

GI



AB The photog. material comprising .gtoreq.1 Ag halide emulsion layer and .gtoreq.1 hydrophilic colloidal layer contg. .gtoreq.1 of I (Q = atoms to form 5- or 6-membered heterocycle which may be condensed with arom. hydrocarbon ring or arom. heterocycle; M = H, alkali metal, NH4+, leaving group in alk. condition) on one side of support is treated with a developing soln. contg. II (R1-2 = H, alkyl, aryl, aralkyl, OH, SH, COOH, sulfo, phosphono, amino, NO2, CN, halo, alkoxy carbonyl, aryloxycarbonyl, carbamoyl, sulfamoyl, alkoxy, R1 and R2 may form a ring). The method gives clear images without stains.

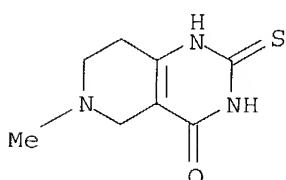
IT 154115-14-7

RL: USES (Uses)

(photog. developers contg.)

RN 154115-14-7 CAPLUS

CN Pyrido[4,3-d]pyrimidin-4(1H)-one, 2,3,5,6,7,8-hexahydro-6-methyl-2-thioxo- (9CI) (CA INDEX NAME)



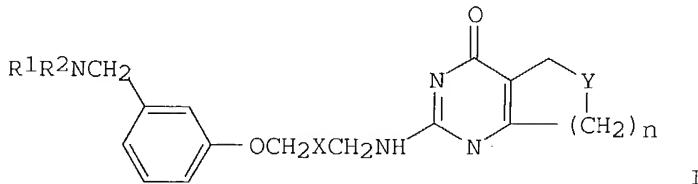
L7 ANSWER 25 OF 48 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1993:625974 CAPLUS
DOCUMENT NUMBER: 119:225974
TITLE: Preparation of substituted pyrimidinones and antiulcer

10/634,181

INVENTOR(S) : agents containing them
Kitagawa, Osamu; Ishii, Katsuyuki; Hayashi, Akinobu;
Takemasa, Toshihiko; Yamada, Hiroko; Seiki, Masao
PATENT ASSIGNEE(S) : Zeria Pharm Co Ltd, Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 13 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 05163250	A2	19930629	JP 1991-352941	19911217
PRIORITY APPLN. INFO.:			JP 1991-352941	19911217
OTHER SOURCE(S):		MARPAT 119:225974		

GI



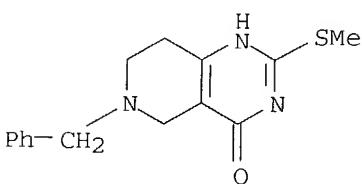
AB The title compds. I [R1, R2 = lower alkyl; NR1R2 may form (un)substituted ring; X = CH2, CH:CH; Y = S, O, SO2, CH2, lower alkyl-substituted C, aralkyl, lower alkyl-substituted N; n = 1-3] and their pharmacol. acceptable salts, which strongly inhibit gastric acid and protect the stomach, are prep'd. Refluxing 755 mg 5,6,7,8-tetrahydro-2-methylthio-4(1H)quinazolinone with 1 g 3-[(3-piperidinomethyl)phenoxy]propylamine in MePh for 24 h gave 730 mg I (R1R2N = piperidino, X = Y = CH2, n = 2) (II), which inhibited EtOH-induced ulcer at ED50 13.3 mg/kg in rats, vs. roxatidine. Granules were manufd. from II 20, lactose 315, corn starch 125, cryst. cellulose 25 g, and 200 mL aq. 7.5% hydroxypropyl cellulose soln.

IT 1033-34-7P 67140-12-9P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. and reaction of)

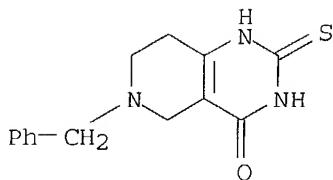
RN 1033-34-7 CAPLUS

CN Pyrido[4,3-d]pyrimidin-4(1H)-one, 5,6,7,8-tetrahydro-2-(methylthio)-6-(phenylmethyl)- (9CI) (CA INDEX NAME)

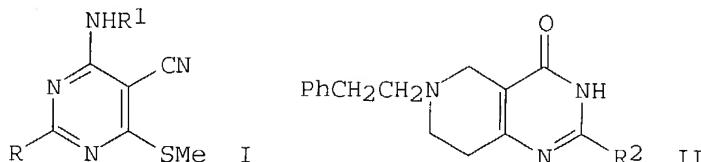


RN 67140-12-9 CAPLUS

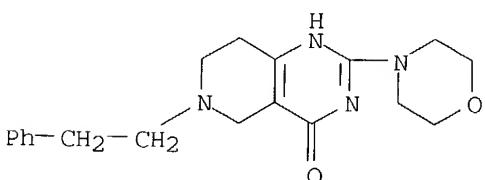
CN Pyrido[4,3-d]pyrimidin-4(1H)-one, 2,3,5,6,7,8-hexahydro-6-(phenylmethyl)-2-thioxo- (9CI) (CA INDEX NAME)



L7 ANSWER 26 OF 48 CAPLUS COPYRIGHT 2004 ACS on STN
 ACCESSION NUMBER: 1993:625911 CAPLUS
 DOCUMENT NUMBER: 119:225911
 TITLE: Chemotherapeutic agents. Part XXIII. Synthesis of .pi.-deficient pyrimidines and fused pyrimidines as leishmanicides
 AUTHOR(S): Ram, Vishnu J.; Haque, Navedul; Nath, Mahendra
 CORPORATE SOURCE: Med. Chem. Div., Cent. Drug Res. Inst., Lucknow, 226 001, India
 SOURCE: Indian Journal of Chemistry, Section B: Organic Chemistry Including Medicinal Chemistry (1993), 32B(7), 754-9
 DOCUMENT TYPE: CODEN: IJSBDB; ISSN: 0376-4699
 LANGUAGE: Journal English
 GI



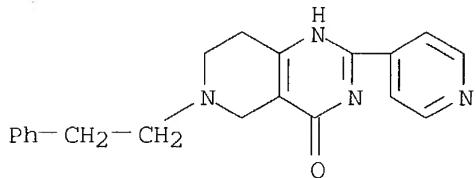
AB Various .pi.-deficient pyrimidines, e.g., I (R = Me, Ph, 4-pyridyl; R1 = H, aryl) and fused pyrimidines, e.g., II (R2 = 4-pyridyl, morpholino, SCH₂Ph) have been synthesized and evaluated for their leishmanicidal activity against *L. donovani*. None of the compds. showed significant activity.
 IT 1049-63-4P 150808-11-0P 150808-12-1P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prep. of)
 RN 1049-63-4 CAPLUS
 CN Pyrido[4,3-d]pyrimidin-4(1H)-one, 5,6,7,8-tetrahydro-2-(4-morpholinyl)-6-(2-phenylethyl)- (9CI) (CA INDEX NAME)



RN 150808-11-0 CAPLUS
 CN Pyrido[4,3-d]pyrimidin-4(1H)-one, 5,6,7,8-tetrahydro-6-(2-phenylethyl)-2-

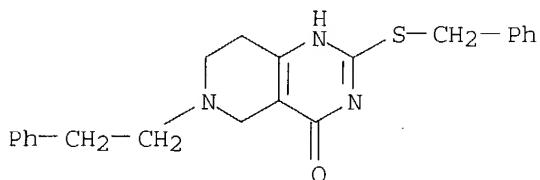
10/634, 181

(4-pyridinyl)- (9CI) (CA INDEX NAME)



RN 150808-12-1 CAPLUS

CN Pyrido[4,3-d]pyrimidin-4(1H)-one, 5,6,7,8-tetrahydro-6-(2-phenylethyl)-2-[(phenylmethyl)thio]- (9CI) (CA INDEX NAME)



L7 ANSWER 27 OF 48 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1992:448598 CAPLUS

DOCUMENT NUMBER: 117:48598

TITLE: Preparation of heterocyclic compounds as psychotropic agents

INVENTOR(S): Imuda, Junichi; Furuya, Yoshiro; Ishitoku, Takeshi; Mizuchi, Akira; Horigome, Kazutoshi; Awaya, Akira

PATENT ASSIGNEE(S): Mitsui Sekiyu Kagaku Kogyo K. K., Japan; Mitsui Seiyaku Kogyo K. K.

SOURCE: Jpn. Kokai Tokkyo Koho, 26 pp.
CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

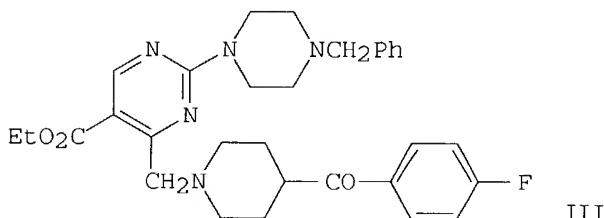
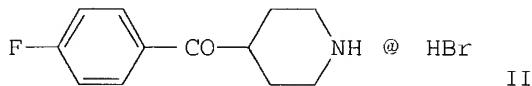
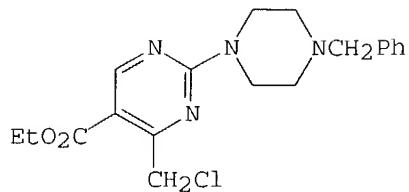
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 04054181	A2	19920221	JP 1990-162676	19900622
JP 3036789	B2	20000424		

PRIORITY APPLN. INFO.: JP 1990-162676 19900622

OTHER SOURCE(S): MARPAT 117:48598

GI



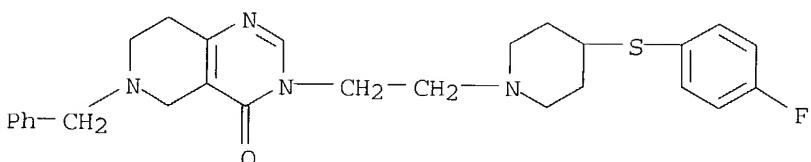
AB Heterocyclic compds. are prep'd. as serotoninergic and dopaminergic antagonists. Refluxing a mixt. of pyrimidine deriv. I, piperidine salt II, and K₂CO₃ in MeCOCH₂CHMe₂ gave 80% III, which showed 39% inhibition of dopaminergic activity at 1 mg/mL. Also prep'd. and tested were 16 addnl. heterocyclic compds. Tablet, capsule, and injection formulations were given.

IT **142222-04-6P 142222-05-7P**

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (prep'n. of, as psychotropic agent)

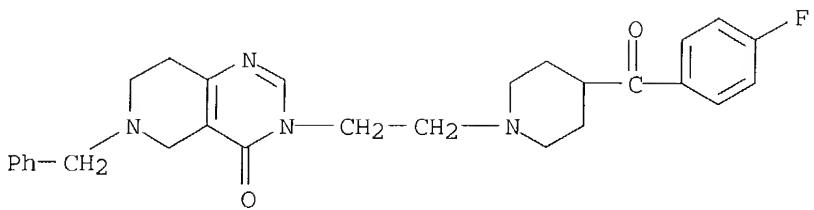
RN 142222-04-6 CAPLUS

CN Pyrido[4,3-d]pyrimidin-4(3H)-one, 3-[2-[4-[(4-fluorophenyl)thio]-1-piperidinyl]ethyl]-5,6,7,8-tetrahydro-6-(phenylmethyl)- (9CI) (CA INDEX NAME)



RN 142222-05-7 CAPLUS

CN Pyrido[4,3-d]pyrimidin-4(3H)-one, 3-[2-[4-(4-fluorobenzoyl)-1-piperidinyl]ethyl]-5,6,7,8-tetrahydro-6-(phenylmethyl)- (9CI) (CA INDEX NAME)



L7 ANSWER 28 OF 48 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1992:151704 CAPLUS

DOCUMENT NUMBER: 116:151704

TITLE: Saturated heterocycles. 184. Dehydrogenation of 6-azaquinazoline derivatives. Formation of unexpected quinonediimine intermediates

AUTHOR(S): Huber, Imre; Fulop, Ferenc; Lazar, Janos; Bernath, Gabor; Toth, Gabor

CORPORATE SOURCE: Inst. Pharm. Chem., Albert Szent-Gyorgyi Med. Univ., Szeged, H-6701, Hung.

SOURCE: Journal of the Chemical Society, Perkin Transactions 1: Organic and Bio-Organic Chemistry (1972-1999) 1: (1992), (1), 157-61

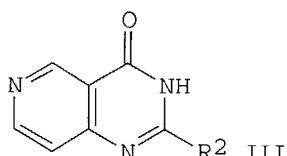
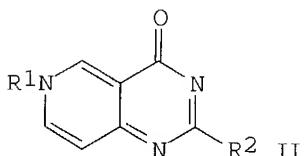
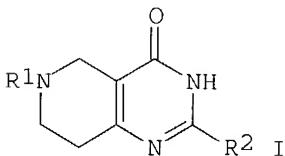
CODEN: JCPRB4; ISSN: 0300-922X

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 116:151704

GI



AB 2,6-Disubstituted 5,6,7,8-tetrahydropyrido[4,3-d]pyrimidin-4(3H)-one (6-azaquinazoline) derivs. I (R1 = PhCH₂, R2 = Ph, 4-pyridyl, Me; R1 = Me, R2 = Ph, Me) were synthesized from N-substituted 3-(methoxycarbonyl)-4-piperidones and amidines R₂C(:NH)NH₂. Compds. I and their debenzylated derivs. underwent dehydrogenation in xylene or in PhNO₂ in the presence of a Pd-C catalyst, to give products II (R1 = PhCH₂, R2 = Ph, 4-pyridyl; R1 = Me, R2 = Ph) and III (R2 = Ph, 4-pyridyl, Me), resp. It was found that the formation of the two types of products, II or III, from the same mols. depends on the substituents at positions 2 and 6, and on the inert or oxidative character of the solvent used. The quinonediimine forms II can be considered to be intermediates of the transformation I to III.

IT 1047-48-9P 1078-16-6P 1448-40-4P

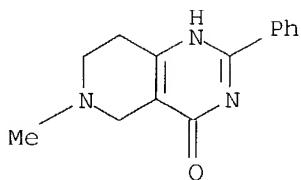
139452-52-1P 139452-53-2P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(prepn. and dehydrogenation of)

RN 1047-48-9 CAPLUS

CN Pyrido[4,3-d]pyrimidin-4(1H)-one, 5,6,7,8-tetrahydro-2-phenyl-6-(phenylmethyl)- (9CI) (CA INDEX NAME)



L7 ANSWER 29 OF 48 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1991:536038 CAPLUS

DOCUMENT NUMBER: 115:136038

TITLE: Anxiolytic properties of certain annelated
[1,2,4]triazolo[1,5-c]pyrimidin-5(6H)-onesAUTHOR(S): Francis, John E.; Bennett, Debra A.; Hyun, James L.;
Rovinski, Stephen L.; Amrick, Caryl L.; Loo, Patricia S.; Murphy, Deborah; Neale, Robert F.; Wilson, Douglas E.

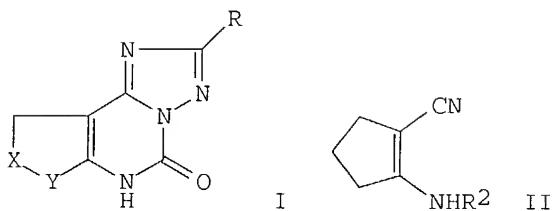
CORPORATE SOURCE: Pharm. Div., Ciba-Geigy Corp., Summit, NJ, 07901, USA

SOURCE: Journal of Medicinal Chemistry (1991), 34(9), 2899-906
CODEN: JMCMAR; ISSN: 0022-2623

DOCUMENT TYPE: Journal

LANGUAGE: English

GI



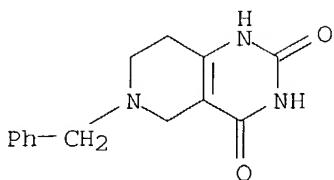
AB Title compds. I [R = Ph, 3-FC₆H₄, 2-ClC₆H₄, 4-FC₆H₄, 4-ClC₆H₄, 2-pyrrolyl, 2-pyridyl, XY = (CH₂)_n, n = 2-4; XY = N(CH₂Ph)CHMe, NHCH₂CH₂, NPhCH₂, NR₁CH₂CH₂, R₁ = 2-pyridylmethyl, 3-pyridylmethyl, COCH₂Ph, etc.] were prep'd. and their anxiolytic properties were examd. Thus, aminocyanocyclopentene II (R₂ = H) reacted with (EtO)₂CO to give II (R₂ = CO₂Et) (III). III cyclocondensed with 2-fluorobenzhydrazide to give I (R = 2-FC₆H₄, XY = CH₂CH₂). The degree of anxiolytic activity was strongly dependent on the N-substituent in the 9-position.

IT 135481-57-1P

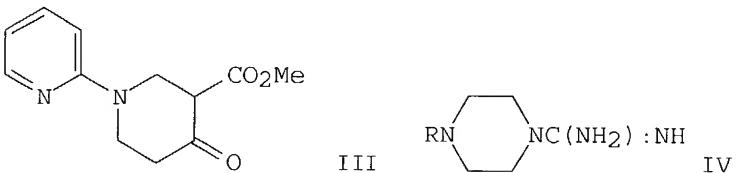
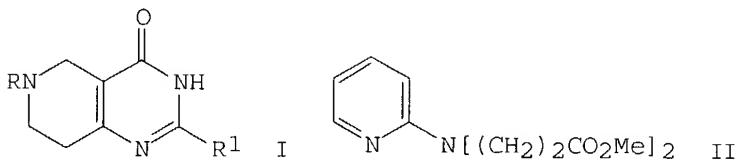
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

RN 135481-57-1 CAPLUS

CN Pyrido[4,3-d]pyrimidine-2,4(1H,3H)-dione, 5,6,7,8-tetrahydro-6-(phenylmethyl)- (9CI) (CA INDEX NAME)



L7 ANSWER 30 OF 48 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1991:408706 CAPLUS
DOCUMENT NUMBER: 115:8706
TITLE: Saturated heterocycles. Part 172. Synthesis of
2,6-disubstituted 5,6,7,8-tetrahydropyrido[4,3-
d]pyrimidine derivatives
AUTHOR(S): Lazar, Janos; Bernath, Gabor
CORPORATE SOURCE: Inst. Pharm. Chem., Albert Szent-Gyorgyi Med. Univ.,
Szeged, H-6701, Hung.
SOURCE: Journal of Heterocyclic Chemistry (1990), 27(7),
1885-92
DOCUMENT TYPE: CODEN: JHTCAD; ISSN: 0022-152X
LANGUAGE: Journal
OTHER SOURCE(S): English
GI: CASREACT 115:8706



AB The title compds. (I; R = H, alkyl, substituted Ph, aroyl, pyridyl; R1 = Me, Ph, azolyl) were synthesized via the addn. of $\text{CH}_2:\text{CHCO}_2\text{Me}$ to PhCH_2NH_2 or to α -aminopyridine, which gave the corresponding diesters, e.g., (II), followed by Dieckmann condensation of the latter to yield the keto esters, e.g., (III), which were condensed with $\text{RC}(\text{NH}_2):\text{NH}$ or guanidines (IV). Subsequent derivatizations gave a no. of products with potential biol. action; some of them showed analgesic and antiinflammatory effects (no data).

IT 1047-48-9P 1047-49-0P 1448-40-4P
134200-75-2P 134200-76-3P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. and hydrogenation of)

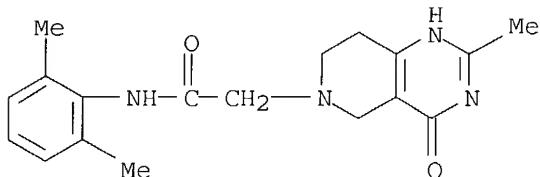
RN 1047-48-9 CAPLUS

CN Pyrido[4,3-d]pyrimidin-4(1H)-one, 5,6,7,8-tetrahydro-2-phenyl-6-(phenylmethyl)- (9CI) (CA INDEX NAME)

10/634, 181

RN 134201-07-3 CAPLUS

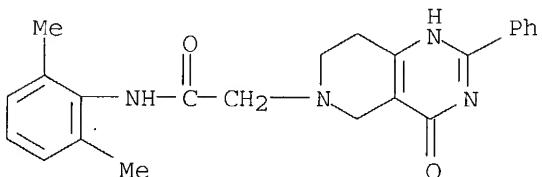
CN Pyrido[4,3-d]pyrimidine-6(4H)-acetamide, N-(2,6-dimethylphenyl)-1,5,7,8-tetrahydro-2-methyl-4-oxo-, dihydrochloride (9CI) (CA INDEX NAME)



● 2 HCl

RN 134201-08-4 CAPLUS

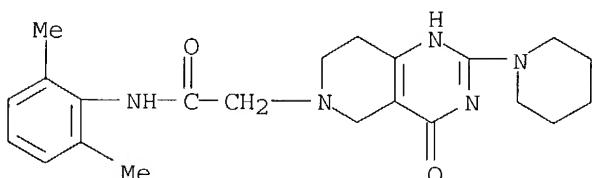
CN Pyrido[4,3-d]pyrimidine-6(4H)-acetamide, N-(2,6-dimethylphenyl)-1,5,7,8-tetrahydro-4-oxo-2-phenyl-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 134201-09-5 CAPLUS

CN Pyrido[4,3-d]pyrimidine-6(4H)-acetamide, N-(2,6-dimethylphenyl)-1,5,7,8-tetrahydro-4-oxo-2-(1-piperidinyl)-, dihydrochloride (9CI) (CA INDEX NAME)



2 HCl

L7 ANSWER 31 OF 48 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1989:417135 CAPLUS

DOCUMENT NUMBER: 111:17135

TITLE: 6-Aza-5,8,10-trideaza analogs of tetrahydrofolic acid and tetrahydroaminopterin. 38. Synthesis and

AUTHOR(S): biological studies
 Rosowsky, Andre; Bader, Henry; Moran, Richard G.;
 Freisheim, James H.

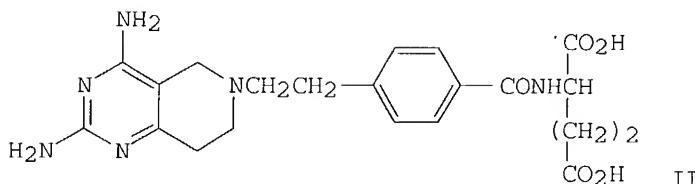
CORPORATE SOURCE: Dana-Farber Cancer Inst., Boston, MA, 02115, USA
 SOURCE: Journal of Heterocyclic Chemistry (1989), 26(2),
 509-16

DOCUMENT TYPE: CODEN: JHTCAD; ISSN: 0022-152X
 Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 111:17135

GI



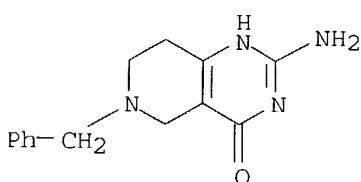
AB 6-Aza-5,8,10-trideaza-5,6,7,8-tetrahydrofolic acid (I) and 6-aza-5,8,10-trideaza-5,6,7,8-tetrahydroaminopterin (II) were synthesized from 6-aza-5,8,10-trideaza-5,6,7,8-tetrahydropteroic acid (III) and 4-amino-6-aza-5,8,10-trideaza-4-deoxy-5,6,7,8-tetrahydropteroic acid (IV), resp., by mixed carboxylic-carbonic anhydride condensation with di-Me L-glutamate followed by ester hydrolysis. The pteroic acid analogs (III) and (IV) were prep'd. in several steps from 1-benzyl-3-carbethoxypiperidin-4-one via 2-amino-6-benzyl-5,6,7,8-tetrahydropyrido[4,3-d]pyrimidin-4(3H)one. I did not inhibit the growth of L1210 mouse leukemic cells in culture, and was not an inhibitor of dihydrofolate reductase (DHFR) or thymidylate synthase (TS). It was a very poor substrate for mouse liver folylpolyglutamate synthetase (FPGS). The 2,4-diamino analog II was only a marginal substrate for FPGS, yet showed activity comparable to methotrexate as a DHFR inhibitor and as an inhibitor of tumor cell growth. The cytotoxicity of II is noteworthy because this compd. appears to be the first example of a classical antifolate which forms polyglutamates poorly even though it contains an intact p-aminobenzoyl-L-glutamic acid side-chain. The inability of I and II to form polyglutamates indicates that a basic nitrogen at position 6 is highly unfavorable for binding to FPGS.

IT 1029-52-3

RL: BIOL (Biological study)
 (debenzylation and reaction with phosphorous oxychloride of)

RN 1029-52-3 CAPLUS

CN Pyrido[4,3-d]pyrimidin-4(1H)-one, 2-amino-5,6,7,8-tetrahydro-6-(phenylmethyl)- (9CI) (CA INDEX NAME)



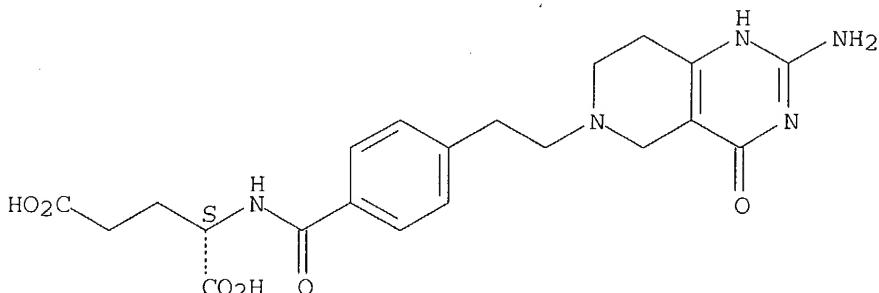
IT 121187-69-7P

RL: SPN (Synthetic preparation); PREP (Preparation)

10/634, 181

CN L-Glutamic acid, N-[4-[2-(2-amino-1,5,7,8-tetrahydro-4-oxopyrido[4,3-d]pyrimidin-6(4H)-yl)ethyl]benzoyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L7 ANSWER 32 OF 48 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1989:212843 CAPLUS

Correction of: 1987:439856

DOCUMENT NUMBER: 110:212843

Correction of: 107:39856

TITLE: Preparation of tetrahydropyrido[4,3-d]pyrimidin-4-ols as central nervous system agents

INVENTOR(S): Kretzschmar, Egon; Meisel, Peter

PATENT ASSIGNEE(S): VEB Arzneimittelwerk, Ger. Dem. Rep.

SOURCE: Ger. (East), 12 pp.

CODEN: GEXXA8

DOCUMENT TYPE: Patent

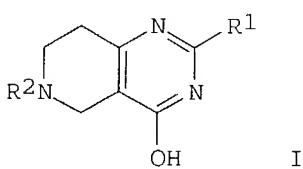
LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DD 241257	A1	19861203	DD 1985-281047	19850926
PRIORITY APPLN. INFO.:			DD 1985-281047	19850926
OTHER SOURCE(S):	CASREACT 110:212843			

GI



AB Title compds I [R1 = C1-5 alkyl, aryl, aralkyl; R2 = 4-FC6H4CO(CH2)3, (4-FC6H4)2CH(CH2)3, PhCH:CHCH2] were prep'd. in several steps from I (R2 = PhCH2) as anticonvulsants, sedatives, and tranquilizers (no data). I [R1 = Me2CHCH2 (throughout), R2 = PhCH2] was refluxed in PhMe with ClCO2Et to give 34% I.HCl (R2 = CO2Et). This was refluxed in concd. HCl to give I.2HCl (R2 = H), which was refluxed with (4-FC6H4)2CH(CH2)3Cl in MeCOEt contg. Na2CO3 and catalytic NaI to give 46% I [R1 = Me2CHCH2, R2 = (4-FC6H4)2CH(CH2)3].

IT 109229-13-2P 109229-14-3P 109229-19-8P

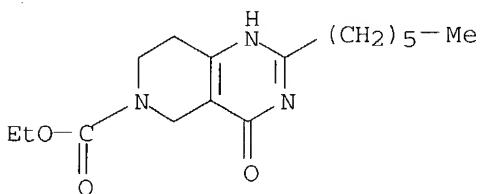
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT

10/634, 181

(Reactant or reagent)
(prepn. and deethoxycarbonylation of)

RN 109229-13-2 CAPLUS

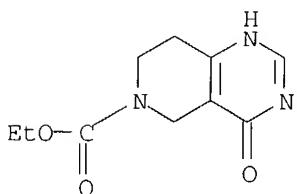
CN Pyrido[4,3-d]pyrimidine-6(4H)-carboxylic acid, 2-hexyl-1,5,7,8-tetrahydro-4-oxo-, ethyl ester, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 109229-14-3 CAPLUS

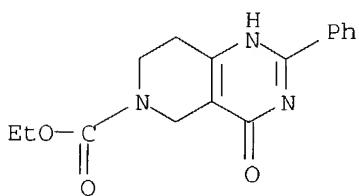
CN Pyrido[4,3-d]pyrimidine-6(4H)-carboxylic acid, 1,5,7,8-tetrahydro-4-oxo-, ethyl ester, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 109229-19-8 CAPLUS

CN Pyrido[4,3-d]pyrimidine-6(4H)-carboxylic acid, 1,5,7,8-tetrahydro-4-oxo-2-phenyl-, ethyl ester (9CI) (CA INDEX NAME)



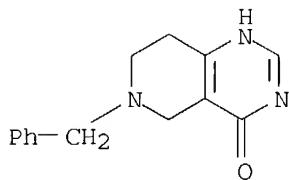
IT 109229-12-1P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(prepn. and deprotection of)

RN 109229-12-1 CAPLUS

CN Pyrido[4,3-d]pyrimidine-6(4H)-carboxylic acid, 1,5,7,8-tetrahydro-2-(3-methylbutyl)-4-oxo-, ethyl ester, monohydrochloride (9CI) (CA INDEX NAME)

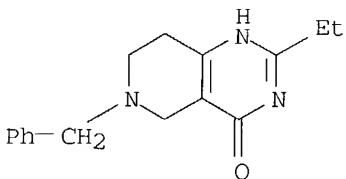


IT 1033-32-5 1448-40-4

RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with chloroformates)

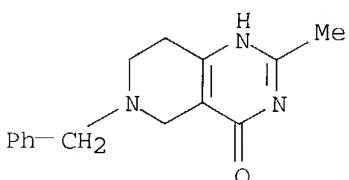
RN 1033-32-5 CAPLUS

CN Pyrido[4,3-d]pyrimidin-4(1H)-one, 2-ethyl-5,6,7,8-tetrahydro-6-(phenylmethyl)- (9CI) (CA INDEX NAME)



RN 1448-40-4 CAPLUS

CN Pyrido[4,3-d]pyrimidin-4(1H)-one, 5,6,7,8-tetrahydro-2-methyl-6-(phenylmethyl)- (9CI) (CA INDEX NAME)

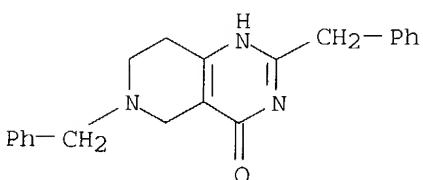


IT 1168-28-1

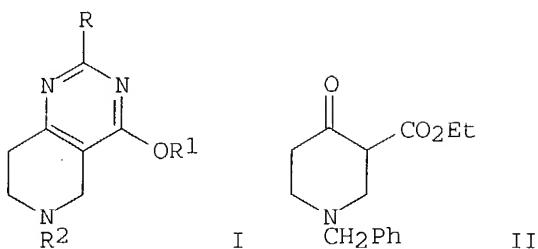
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with iso-Pr chloroformate)

RN 1168-28-1 CAPLUS

CN Pyrido[4,3-d]pyrimidin-4(1H)-one, 5,6,7,8-tetrahydro-2,6-bis(phenylmethyl)- (9CI) (CA INDEX NAME)



TITLE: Synthesis of 2,6-disubstituted 4-hydroxy-5,6,7,8-tetrahydropyrido[4,3-d]pyrimidines
 AUTHOR(S): Kretzschmar, E.; Meisel, P.
 CORPORATE SOURCE: Direktionsber. Forsch. Entwickl., VEB Pharm. Komb.
 GERMED, Dresden, Ger. Dem. Rep.
 SOURCE: Pharmazie (1988), 43(7), 475-6
 DOCUMENT TYPE: CODEN: PHARAT; ISSN: 0031-7144
 LANGUAGE: Journal
 OTHER SOURCE(S): German
 GI: CASREACT 110:114783



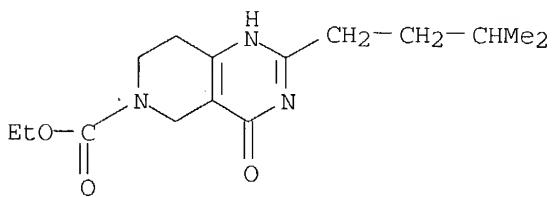
AB Pyridopyrimidines I [R = cyclohexyl, CH₂CH₂CHMe₂, Me, CH₂Ph, H, Ph, Et; R₁ = H, Bu; R₂ = CH₂Ph, CO₂Et, CO₂CHMe₂, CO₂Ph, H, (CH₂)₃COC₆H₄F-4, (CH₂)₃CH(C₆H₄F-4)₂] were prep'd. from the piperidinone II and HN:CRNH₂.HCl followed by substitution of I (R₂ = CH₂Ph). I have no pharmacol activity.

IT 109229-12-1P 109229-13-2P 109229-14-3P
109229-15-4P 109229-16-5P 109229-17-6P
109229-18-7P 109229-19-8P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. and decarboxylation of)

RN 109229-12-1 CAPLUS

CN Pyrido[4,3-d]pyrimidine-6(4H)-carboxylic acid, 1,5,7,8-tetrahydro-2-(3-methylbutyl)-4-oxo-, ethyl ester, monohydrochloride (9CI) (CA INDEX NAME)



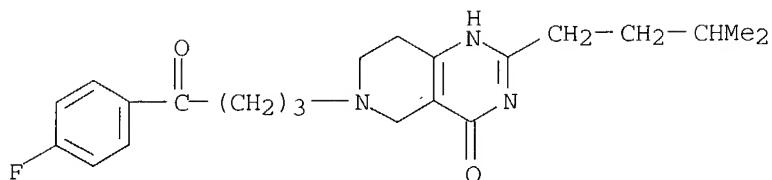
HCl

RN 109229-13-2 CAPLUS

CN Pyrido[4,3-d]pyrimidine-6(4H)-carboxylic acid, 2-hexyl-1,5,7,8-tetrahydro-4-oxo-, ethyl ester, monohydrochloride (9CI) (CA INDEX NAME)

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5,6,7,8-tetrahydro-2-(3-methylbutyl)- (9CI) (CA INDEX NAME)

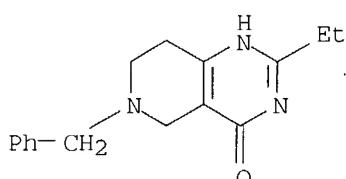


IT 1033-32-5

RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with chloroformate)

RN 1033-32-5 CAPLUS

CN Pyrido[4,3-d]pyrimidin-4(1H)-one, 2-ethyl-5,6,7,8-tetrahydro-6-(phenylmethyl)- (9CI) (CA INDEX NAME)



L7 ANSWER 34 OF 48 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1987:439856 CAPLUS

DOCUMENT NUMBER: 107:39856

TITLE: Preparation of tetrahydropyrido[4,3-d]pyrimidin-4-ols as central nervous system agents

INVENTOR(S): Kretzschmar, Egon; Meisel, Peter

PATENT ASSIGNEE(S): VEB Arzneimittelwerk, Ger. Dem. Rep.

SOURCE: Ger. (East), 12 pp.

CODEN: GEXXA8

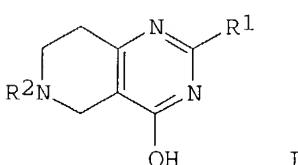
DOCUMENT TYPE: Patent

LANGUAGE: German

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DD 241257 A1		19861203	DD 1985-281047	19850926

GI



AB The title compds. [I; R1 = C1-5 alkyl, aryl, aralkyl; R2 = 4-FC6H4CO(CH2)3, (4-FC6H4)2CH(CH2)3, PhCH:CHCH2] were prep'd. in several steps from I (R2 = PhCH2) as anticonvulsants, sedatives, and tranquilizers (no data). I [R1 = Me2CHCH2 (throughout), R2 = PhCH2] was refluxed in

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PhMe with ClCO₂Et to give 34% I.HCl (R₂ = CO₂Et). This was refluxed in concd. HCl to give I.2HCl (R₂ = H) which was refluxed with (4-FC₆H₄)₂CH(CH₂)₃Cl in MeCOEt contg. Na₂CO₃ and catalytic KI to give 46% I [R₁ = Me₂CHCH₂, R₂ = (4-FC₆H₄)₂CH(CH₂)₃].

IT 109229-12-1P 109229-13-2P 109229-14-3P

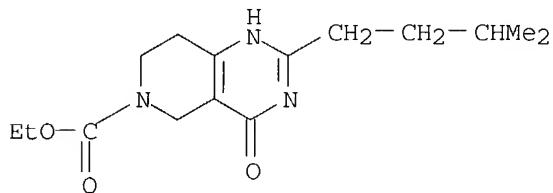
109229-19-8P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(prepn. and deethoxycarbonylation of)

RN 109229-12-1 CAPLUS

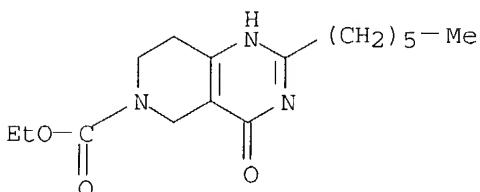
CN Pyrido[4,3-d]pyrimidine-6(4H)-carboxylic acid, 1,5,7,8-tetrahydro-2-(3-methylbutyl)-4-oxo-, ethyl ester, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 109229-13-2 CAPLUS

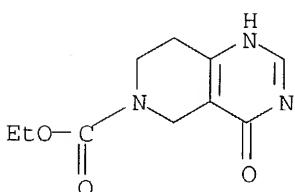
CN Pyrido[4,3-d]pyrimidine-6(4H)-carboxylic acid, 2-hexyl-1,5,7,8-tetrahydro-4-oxo-, ethyl ester, monohydrochloride (9CI) (CA INDEX NAME)



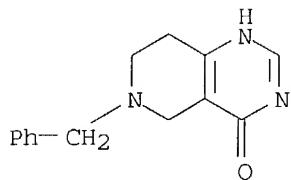
● HCl

RN 109229-14-3 CAPLUS

CN Pyrido[4,3-d]pyrimidine-6(4H)-carboxylic acid, 1,5,7,8-tetrahydro-4-oxo-, ethyl ester, monohydrochloride (9CI) (CA INDEX NAME)



HCl

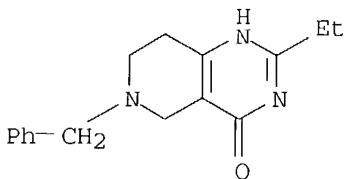


IT 1033-32-5 1448-40-4

RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with chloroformates)

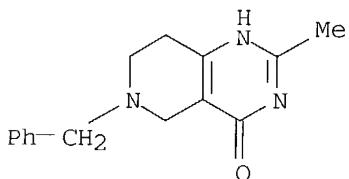
RN 1033-32-5 CAPLUS

CN Pyrido[4,3-d]pyrimidin-4(1H)-one, 2-ethyl-5,6,7,8-tetrahydro-6-(phenylmethyl)- (9CI) (CA INDEX NAME)



RN 1448-40-4 CAPLUS

CN Pyrido[4,3-d]pyrimidin-4(1H)-one, 5,6,7,8-tetrahydro-2-methyl-6-(phenylmethyl)- (9CI) (CA INDEX NAME)

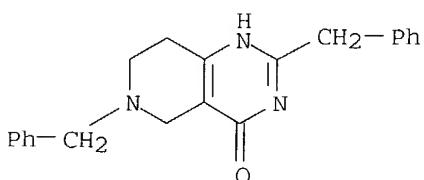


IT 1168-28-1

RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with iso-Pr chloroformate)

RN 1168-28-1 CAPLUS

CN Pyrido[4,3-d]pyrimidin-4(1H)-one, 5,6,7,8-tetrahydro-2,6-bis(phenylmethyl)- (9CI) (CA INDEX NAME)

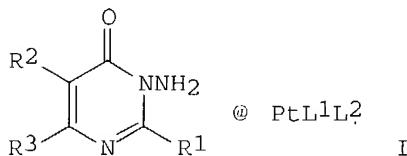


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TITLE: 2,3-Diamino-substituted-4(3H)-pyrimidinones and platinum chelates
INVENTOR(S): Hlavka, Joseph J.; Bitha, Panayota; Lin, Yang-i
PATENT ASSIGNEE(S): American Cyanamid Co., USA
SOURCE: U.S., 8 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4577018	A	19860318	US 1983-525531	19830822
PRIORITY APPLN. INFO.:			US 1983-525531	19830822
OTHER SOURCE(S):		CASREACT 105:43092		

GI



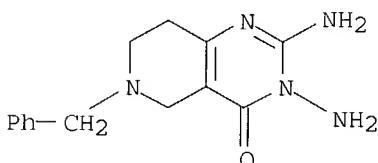
AB Platinum complexes I (R1 = NH2, NHNH2; R2 = H, alkyl, halo, PhCH2, HOCH2CH2; R3 = alkyl, CF3, Ph, 4-ClC6H4, 4-O2NC6H4; R2R3 = substituted alkylene or benzo, etc.; L1, L2 = halide, sulfate, nitrate, alcanoate; L1L2 = oxalate, malonate, methylmalonate, succinate, tartronate) were prep'd. as antitumor agents. H2NC(:NH)NNH2-HCl was treated with 4-O2NC6H4COCH2CO2Et, and the product was mixed with K tetrachloroplatinate to give I (R1 = NH2, R2 = H, R3 = 4-O2NC6H4, L1 = L2 = Cl)(II). In the lymphocytic leukemia P388 test with mice, II at 100 mg/kg i.p. increased the lifespan by 140%.

IT 103109-31-5P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(prepn. and reaction of, with tetrachloroplatinate)

RN 103109-31-5 CAPLUS

CN Pyrido[4,3-d]pyrimidin-4(3H)-one, 2,3-diamino-5,6,7,8-tetrahydro-6-(phenylmethyl)- (9CI) (CA INDEX NAME)



L7 ANSWER 36 OF 48 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1985:442762 CAPLUS
DOCUMENT NUMBER: 103:42762
TITLE: Ionic reactions in carbon dioxide at atmospheric pressure. Relationship to radiolysis
AUTHOR(S): Yasumasa, Ikezoe; Shingo, Matsuoka; Shoichi, Sato
CORPORATE SOURCE: Japan At. Energy Res. Inst., Tokai, Japan

10/634, 181

SOURCE: Shitsuryo Bunseki (1984), 32(5), 449R-453R
CODEN: SHIBAK; ISSN: 0542-8645

DOCUMENT TYPE: Journal; General Review
LANGUAGE: Japanese

AB A review with 9 refs. on ionic reactions in atm.-pressure CO₂. Exptl. observation and roles of a cluster ion (O₂(CO)₂)⁺(CO₂)_n are discussed.

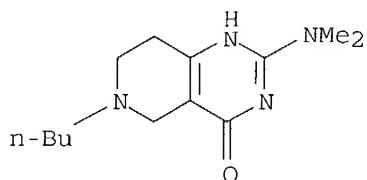
IT 1218-16-2

RL: PRP (Properties)

(formation of ion clusters contg., during ionic reactions in carbon dioxide atm.)

RN 1218-16-2 CAPLUS

CN Pyrido[4,3-d]pyrimidin-4(1H)-one, 6-butyl-2-(dimethylamino)-5,6,7,8-tetrahydro- (9CI) (CA INDEX NAME)



L7 ANSWER 37 OF 48 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1978:509556 CAPLUS

DOCUMENT NUMBER: 89:109556

TITLE: Pyridopyrimidine compounds

INVENTOR(S): Shiraki, Masami

PATENT ASSIGNEE(S): Yoshitomi Pharmaceutical Industries, Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

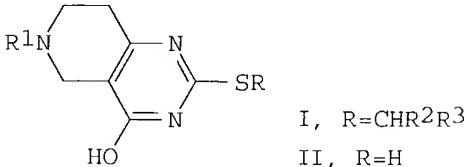
LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 53028193	A2	19780316	JP 1976-102887	19760828
PRIORITY APPLN. INFO.:			JP 1976-102887	19760828

GI



AB Sixteen title compds. I [R₁ = alkyl, aralkyl, acyl; R₂ = H, alkyl; R₃ = alkoxy carbonyl, carbamoyl, R₄CO (R₄ = (un)substituted Ph), R₄ZCO (Z = NH, piperazine-1,4-diyl), R₄CH(OH)] were prep'd. by reaction of II with XCHR₂R₃ (X = halo). I had antiinflammatory, antipyretic, analgesic, anticholesteremic, and sedative activities; the rat liver lysosome stabilization activity of I is about 30% higher than that of ibuprofen and 10 times as high as that of aspirin. Thus, a mixt. of 10 g II (R₁ = PhCH₂) and 1.7 g 50% oil NaH in DMF was stirred 3.0 min at room temp., 7.3

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g BzCH₂Br added, and the whole stirred 5 h at 60.degree. to give I (R1 = PhCH₂, R2 = H, R3 = Bz).

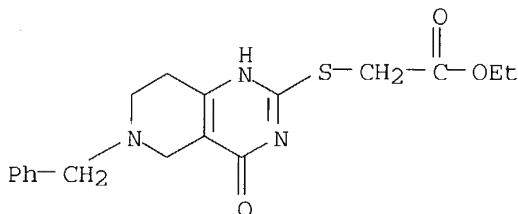
IT 67140-14-1P 67140-15-2P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(prepn. and antiinflammatory activity of)

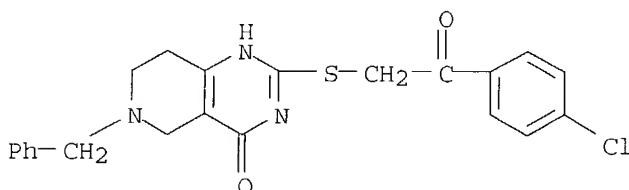
RN 67140-14-1 CAPLUS

CN Acetic acid, {[1,4,5,6,7,8-hexahydro-4-oxo-6-(phenylmethyl)pyrido[4,3-d]pyrimidin-2-yl]thio] -, ethyl ester (9CI) (CA INDEX NAME)



RN 67140-15-2 CAPLUS

CN Pyrido[4,3-d]pyrimidin-4(1H)-one, 2-[[2-(4-chlorophenyl)-2-oxoethyl]thio]-5,6,7,8-tetrahydro-6-(phenylmethyl)- (9CI) (CA INDEX NAME)

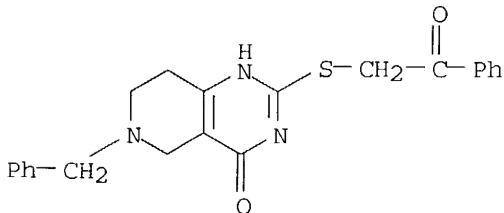


IT 67140-13-0P 67140-14-1P 67140-16-3P
67140-17-4P 67140-18-5P 67140-19-6P
67140-20-9P 67140-21-0P 67140-22-1P
67140-23-2P 67140-24-3P 67140-25-4P
67236-66-2P

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

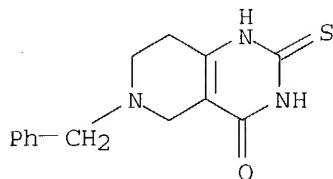
RN 67140-13-0 CAPLUS

CN Pyrido[4,3-d]pyrimidin-4(1H)-one, 5,6,7,8-tetrahydro-2-[(2-oxo-2-phenylethyl)thio]-6-(phenylmethyl)- (9CI) (CA INDEX NAME)

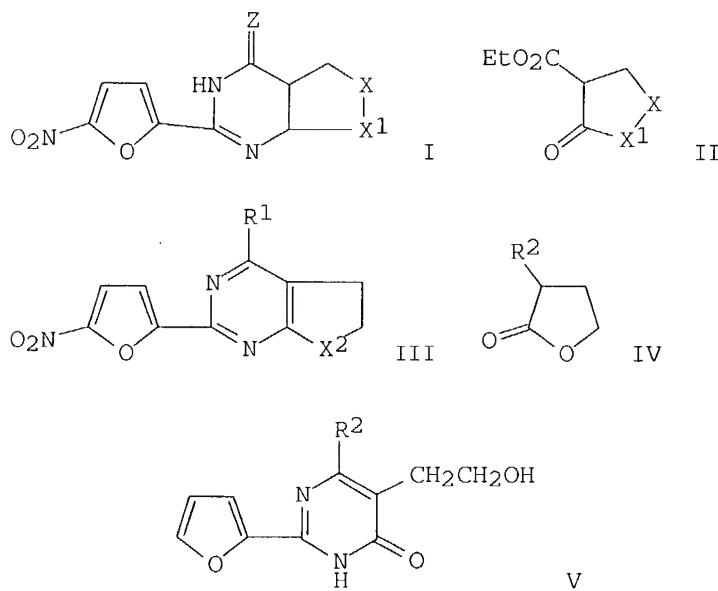


RN 67140-14-1 CAPLUS

CN Acetic acid, {[1,4,5,6,7,8-hexahydro-4-oxo-6-(phenylmethyl)pyrido[4,3-d]pyrimidin-2-yl]thio] -, ethyl ester (9CI) (CA INDEX NAME)



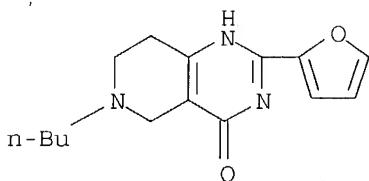
L7 ANSWER 38 OF 48 CAPLUS COPYRIGHT 2004 ACS on STN
 ACCESSION NUMBER: 1977:29739 CAPLUS
 DOCUMENT NUMBER: 86:29739
 TITLE: Chemotherapeutic nitroheterocycles. 25.
 2-(5-Nitro-2-furyl)-5,6,7,8-tetrahydroquinazolines and related compounds
 AUTHOR(S): Albrecht, R.; Schumann, K.
 CORPORATE SOURCE: Forschungslab., Schering A.-G., Berlin, Fed. Rep. Ger.
 SOURCE: European Journal of Medicinal Chemistry (1976), 11(2), 155-8
 DOCUMENT TYPE: CODEN: EJMCA5; ISSN: 0223-5234
 LANGUAGE: Journal German
 OTHER SOURCE(S): CASREACT 86:29739
 GI



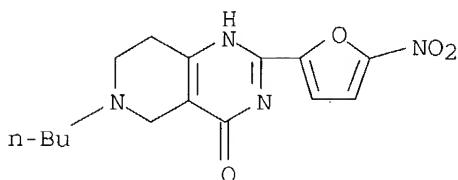
AB Fused pyrimidines I [XX1 = (CH2)2, (CH2)3, NBuCH2CH2; Z = O] were prep'd. by treating 2-furamidine-HCl with NaOEt and II and nitrating the product. Chlorination of I [XX1 = (CH2)3] gave quinazoline III, which was aminated to give III [R = NH2, NHMe, pyrrolidino-HCl, morpholino-HCl, NHCH2CH2NMe2-2HCl; X2 = (CH2)2]. 2-Furamidine-HCl and furanones IV (R2 = CO2Et, Ac, cyano) gave pyrimidinones V (R2 = OH, Me, NH2), which were cyclized with concd. H2SO4 and the products nitrated to give III (R1 = R2 of V, X2 = O). Also prep'd. was I [XX1 = (CH2)2, Z = S]. III (R1 = Cl, Me, basic substituent) had min. inhibitory concns. against Trichomonas

10/634,181

IT vaginolis of 0.05-1.6 .mu.g/ml.
IT 61378-79-8P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. and nitration of)
RN 61378-79-8 CAPLUS
CN Pyrido[4,3-d]pyrimidin-4(1H)-one, 6-butyl-2-(2-furanyl)-5,6,7,8-tetrahydro-(9CI) (CA INDEX NAME)



IT 61378-82-3P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 61378-82-3 CAPLUS
CN Pyrido[4,3-d]pyrimidin-4(1H)-one, 6-butyl-5,6,7,8-tetrahydro-2-(5-nitro-2-furanyl)-(9CI) (CA INDEX NAME)



L7 ANSWER 39 OF 48 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1969:438993 CAPLUS
DOCUMENT NUMBER: 71:38993
TITLE: 6-Acetyl-4-hydroxy-2-mercaptop-5,6,7,8-tetrahydropyrido[4,3-d]pyrimidine
INVENTOR(S): Mayer, Julian R.
PATENT ASSIGNEE(S): Sterling Drug Inc.
SOURCE: U.S., 2 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3444168	A	19690513	US 1966-605954	19661230
PRIORITY APPLN. INFO.:			US 1966-605954	19661230

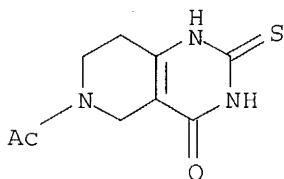
GI For diagram(s), see printed CA Issue.
AB The title compd. (I), useful as a psychomotor stimulant and depressant, was prep'd. Et 1-acetyl-4-oxo-3-piperidinecarboxylate (6.5 g.) in 75 cc. H2O was treated with 2.3 g. thiourea at 70.degree. in the presence of 4.1 g. of K2CO3; the soln. was heated 45 min. at 95.degree., the pH adjusted to 8 by the addn. of AcOH, the ppt. filtered and worked up to give 4.9 g. I, m. >300.degree..

IT 23352-41-2P

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

RN 23352-41-2 CAPLUS

CN Ketone, 7,8-dihydro-4-hydroxy-2-mercaptopyrido[4,3-d]pyrimidin-6(5H)-yl methyl (8CI) (CA INDEX NAME)



L7 ANSWER 40 OF 48 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1967:473618 CAPLUS

DOCUMENT NUMBER: 67:73618

TITLE: 4-Hydroxy-5,6,7,8-tetrahydropyrido[4,3-d]pyrimidine substitution products

INVENTOR(S): Ohnacker, Gerhard

PATENT ASSIGNEE(S): Boehringer Ingelheim G.m.b.H.

SOURCE: U.S., 14 pp.

CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

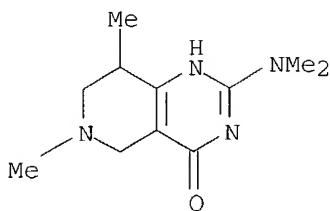
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3306901		19670228		

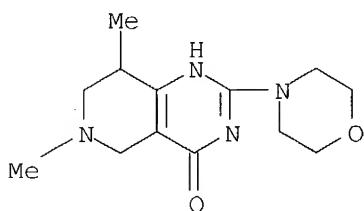
PRIORITY APPLN. INFO.: DE 19620322

GI For diagram(s), see printed CA Issue.

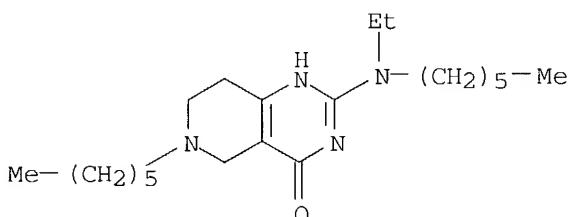
AB The subject compds., which exhibit antiphlogistic, antipyretic, diuretic, bacteriostatic, sedative, and coronary dilating activities, have the general formula I. I is prep'd. by treating a pyridonecarboxylic acid lower alkyl ester or its addn. salt with an amidine or its inorg. or org. addn. salt. Thus, 22.2 g. Me 1,5-dimethyl-4-piperidone-3-carboxylate-HCl, 19.1 g. phenylacetamidine-HCl, and 20.8 g. K₂CO₃ were each dissolved in 50 ml. H₂O and the solns. combined and heated to 60.degree. a short time to give 20 g. I (R = Me, R₁ = Me, R₂ = PhCH₂), m. 193-5.degree. (MeOH). Also prep'd. are the following I (R, R₁, R₂, and m.p. given): Me, H, SEt, 156-7.degree.; Me, Me, SMe, 212.degree.; Me, Me, NBu₂, 134-5.degree.; Bu, H, NHC₆H₁₃, 129.degree.; Et, H, SMe, 187.degree.; Pr, H, SMe, 198-9.degree.; Pr, H, SEt, 132.degree.; iso-Pr, H, SEt, 153.degree.; Bu, H, SME, 184.degree.; iso-Bu, H, SMe, 207-8.degree.; Me, H, CH₂Ph, 218-19.degree.; Me, Me, Me, 177-9.degree.; Et, H, CH₂Ph, 177-8.degree.; Pr, H, Me, 165-7.degree.; iso-Pr, H, CH₂Ph, 163-5.degree.; Bu, H, Me, 146-7.degree.; Bu, H, CH₂Ph, 113-14.degree.; Pr, H, Bu, 109-11.degree.; Me, H, NBu₂, 135-7.degree.; Me, H, piperidino, 231.degree.; Me, H, morpholino 222-3.degree.; Me, Me, NMe₂, 185-6.degree.; Me, Me, morpholino, 197-8.degree.; Et, H, NBu₂, 94-6.degree.; Et, H, NMe₂, 56-7.degree.; Et, H, 1-pyrrolidinyl, 190-2.degree.; Et, H, piperidino, 170.degree.; Et, H, morpholino, 186.degree.; Et, H, 4-methylpiperazino, 162-3.degree.; Pr, H, 1-pyrrolidinyl, 182-4.degree.; Pr, H, piperidino, 184-5.degree.; Pr, H, morpholino, 186-7.degree.; Pr, H, 4-methylpiperazino, 148-50.degree.; Pr, H, piperidino, 209-11.degree.; Pr, H, morpholino, 230-2.degree.; Bu, H, NBu₂, 104.degree.; Bu, H, pyrrolidinyl, 172-3.degree.; Bu, H, piperidino,



RN 15637-75-9 CAPLUS
 CN Pyrido[4,3-d]pyrimidin-4-ol, 5,6,7,8-tetrahydro-6,8-dimethyl-2-morpholino- (8CI) (CA INDEX NAME)



RN 15641-78-8 CAPLUS
 CN Pyrido[4,3-d]pyrimidin-4-ol, 2-(ethylhexylamino)-6-hexyl-5,6,7,8-tetrahydro- (8CI) (CA INDEX NAME)



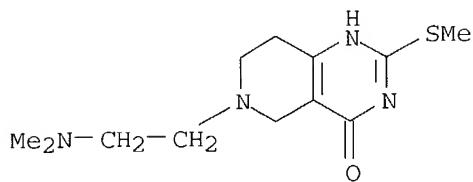
L7 ANSWER 41 OF 48 CAPLUS COPYRIGHT 2004 ACS on STN
 ACCESSION NUMBER: 1966:447757 CAPLUS
 DOCUMENT NUMBER: 65:47757
 ORIGINAL REFERENCE NO.: 65:8932c-h,8933a-e
 TITLE: 5,6,7,8-Tetrahydropyrido [4,3-d] pyrimidines
 PATENT ASSIGNEE(S): Dr. Karl Thomae G.m.b.H., Neth.
 SOURCE: 9 pp.
 DOCUMENT TYPE: Patent
 LANGUAGE: Unavailable
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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NL 6602499	19660525	NL	19660225	

GI For diagram(s), see printed CA Issue.
 AB The title compds., I, were prep'd., where R = H or Me, R' is an aryl, aralkyl, cycloalkyl, or dialkylaminoalkyl group, and R" is an amino or substituted amino group. The I exhibit antiinflammatory, antipyretic, diuretic, bacteriostatic, sedative, and coronary dilating activity. The

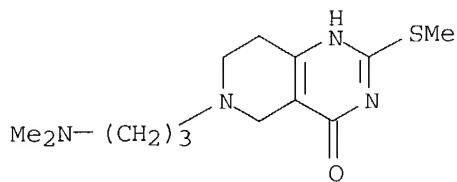
10/634, 181

2-(methylthio)- (8CI) (CA INDEX NAME)



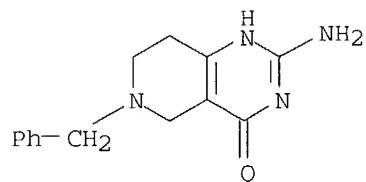
RN 1029-50-1 CAPLUS

CN Pyrido[4,3-d]pyrimidin-4-ol, 6-[3-(dimethylamino)propyl]-5,6,7,8-tetrahydro-2-(methylthio)- (7CI, 8CI) (CA INDEX NAME)



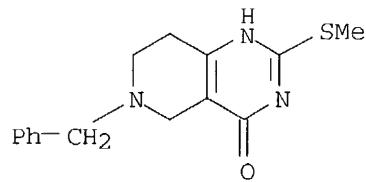
RN 1029-52-3 CAPLUS

CN Pyrido[4,3-d]pyrimidin-4(1H)-one, 2-amino-5,6,7,8-tetrahydro-6-(phenylmethyl)- (9CI) (CA INDEX NAME)



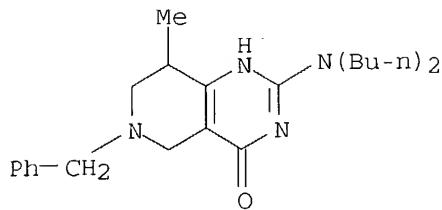
RN 1033-34-7 CAPLUS

CN Pyrido[4,3-d]pyrimidin-4(1H)-one, 5,6,7,8-tetrahydro-2-(methylthio)-6-(phenylmethyl)- (9CI) (CA INDEX NAME)



RN 1033-39-2 CAPLUS

CN Pyrido[4,3-d]pyrimidin-4-ol, 2-amino-5,6,7,8-tetrahydro-6-phenethyl- (7CI, 8CI) (CA INDEX NAME)



L7 ANSWER 42 OF 48 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1966:27641 CAPLUS

DOCUMENT NUMBER: 64:27641

ORIGINAL REFERENCE NO.: 64:5121g-h,5122a-f

TITLE: Benzodiazepines

INVENTOR(S): Reeder, Earl; Sternbach, Leo H.

PATENT ASSIGNEE(S): Hoffmann-La Roche Inc.

SOURCE: 5 pp.

DOCUMENT TYPE: Patent

LANGUAGE: Unavailable

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3222359	-----	19651207	US	19610728
GB 1017277	-----		GB	

GI For diagram(s), see printed CA Issue.

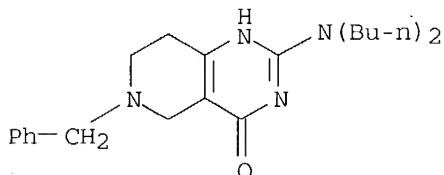
AB The title compds., characterized as 5-phenyl-1,2-dihydro-3H-1,4-benzodiazepines (I), which are useful as muscle relaxants, sedatives, and anticonvulsants, were produced by reacting an alkylene-1,2-diamine with a benzophenone contg. a halogen substituent ortho to the CO group. To a clear soln. of 80 g. NaNO₂ in 460 ml. concd. H₂SO₄, 200 g. 2-chloro-5-trifluoromethylaniline was slowly added at 10-20.degree., stirred 1 hr. at 20.degree., poured into a mixt. of 200 g. NaCl and 1.6 kg. ice, and the excess NaCl filtered off. A soln. of 280 g. ZnCl₂ in 300 ml. H₂O was added to the filtrate, kept at 0.degree. overnight and the pptd. double salt of the corresponding diazonium compd. collected (291 g.) and added to a soln. of 120 g. NaCN and 72 g. CuCN in 300 ml. H₂O. Na₂CO₃ (24 g.) was added, the mixt. was stirred 1 hr. at 20, 0.5 hr. at 70.degree., cooled, and extd. with Et₂O to give 2-chloro-5-trifluoromethylbenzonitrile (II). A soln. of 39 g. II in 200 ml. C₆H₆ was added with stirring to a soln. of PhMgBr prep'd. from 9.5 g. Mg, 58.5 g. PhBr, and 500 ml. anhyd. Et₂O. The solvent (44 ml.) was distd., the residual mixt. refluxed 16 hrs., treated with 40 g. NH₄Cl and 200 g. ice, and extd. with C₆H₆ which was treated with 40 ml. concd. HCl to give 2-chloro-5-trifluoromethylbenzophenone (III) imine-HCl (IIIa), m. 250-62.degree.. A mixt. of 60 g. IIIa, 300 ml. PhMe, and 300 ml. 25% H₂SO₄ was refluxed overnight to yield III, m. 39-40.degree. (cor.). A soln. of 82.1 g. III in 300 ml. anhyd. C₅H₅N was treated with 89.9 g. H₂NCH₂CH₂NH₂ (IV), refluxed 5 hrs. with stirring, allowed to cool overnight, evapd. in vacuo, the residue dissolved in 500 ml. 0.6N HCl and extd. with Et₂O. The cooled aq. layer was made basic with 3N NaOH to yield I (R = H, R' = 7-F3C) (Ia), m. 110-11.degree. (hexane); Ia.HCl m. 283-5.degree. (MeOH-Et₂O). The following I were similarly prep'd. from the appropriate diamine and appropriate benzophenone (given R, R', m.p., and crystn. solvent): H, 7-NO₂ (Ib), 211-12.degree., Me₂CO; H, H, 144-6.degree., hexane; H, 7-Cl, 170-1.degree., Et₂O; Me, 7-NO₂ (Ic), 249-50.degree., CH₂Cl₂. To a soln. of 160 g. Ib in 1.6 l. HCONMe₂ was added 35.6 g. NaOMe, the mixt. stirred 1 hr. at room temp., and treated

with 65.2 ml. Me₂SO₄ and stirred 2 hrs. to give 1-methyl-7-nitro-5-phenyl-1,2-dihydro-3H-1,4-benzodiazepine, m. 187-8.degree.. A soln. of 2 g. Ic in 40 ml. 3N HCl was refluxed 21 hrs., cooled, made alk. with dil. NaOH soln., and extd. with CH₂Cl₂ to yield 2-(2-aminopropylamino)-5-nitrobenzophenone (V), m. 98-9.degree.; HCl salt m. 204-5.degree.. A soln. of V in C₅H₅N was recycled by refluxing to give Ic again. A suspension of 28.1 g. Ic in 250 cc. MeOH was hydrogenated at room temp. and atm. pressure in the presence of 6 g. wet Raney Ni to yield 1.2HCl (R = Me, R' = 7-NH₂) (Id.2HCl), m. 277-80.degree. (decompn.); Id m. 128-9.degree.. Ib was similarly converted to 2-(2-aminoethylamino)-5-nitrobenzophenone (VI).HCl, m. 225-7.degree.. VI.HCl was converted to VI, m. 118-19.degree., which was then recyclized as above to Ib. A stirred suspension of 0.76 g. LiAlH₄ in 25 ml. dry tetrahydrofuran (THF) was added to a soln. of 2.84 g. 7-chloro-3-methyl-5-phenyl-3H-1,4-benzodiazepin-2(1H)-one in 50 ml. THF, refluxed 25 min., treated with ice, and worked up in the usual manner to yield I (R = Me, R' = 7-Cl) (Ie), m. 127-8.degree.. To a cooled, stirred soln. of 6.4 g. Id.2HCl in 30 ml. 6N HCl was added within 10 min. 20 ml. N NaNO₂ at 5.degree.. The soln. was stirred 15 min. at 0.degree. and added within 5 min. to a stirred soln. (28.degree.) of 4 g. CuCl in 40 ml. concd. HCl, stirred 15 min. at room temp., 30 min. at 40.degree., and 20 min. at 85-90.degree.. The cooled soln. was treated with excess NH₄OH and extd. with CH₂Cl₂ to give Ie. III (22 g.) in 250 ml. anhyd. C₅H₅N and 210 g. IV yielded a mixt. of 2,3-dihydro-5-phenyl-7-trifluoromethyl-1H-1,4-benzodiazepine and 2-(2-aminoethylamino)-5-trifluoromethyl-benzophenone which was refluxed in C₅H₅N to yield 2,3-dihydro-5-phenyl-7-trifluoromethyl-1H-1,4-benzodiazepine, m. 116-18.degree. (hexane), which is a dimorphic cryst. form of Ia. The two are interconvertible.

IT 1054-26-8, Pyrido[4,3-d]pyrimidin-4-ol, 6-benzyl-2-(dibutylamino)-5,6,7,8-tetrahydro- (prepn. of)

RN 1054-26-8 CAPLUS

CN Pyrido[4,3-d]pyrimidin-4-ol, 6-benzyl-2-(dibutylamino)-5,6,7,8-tetrahydro- (7CI, 8CI) (CA INDEX NAME)



L7 ANSWER 43 OF 48 CAPLUS COPYRIGHT 2004 ACS on STN
 ACCESSION NUMBER: 1966:27617 CAPLUS
 DOCUMENT NUMBER: 64:27617
 ORIGINAL REFERENCE NO.: 64:5112d-g
 TITLE: 2-Amino-3,5-dialkyl-6-phenyl-4(3H)-pyrimidinones
 PATENT ASSIGNEE(S): G. D. Searle & Co.
 SOURCE: 8 pp.
 DOCUMENT TYPE: Patent
 LANGUAGE: Unavailable
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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GB 1003802		19650908	GB	
PRIORITY APPLN. INFO.:			US	19630604

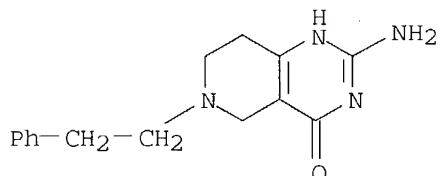
GI For diagram(s), see printed CA Issue.

AB The title compds. are prep'd. and can be used as diuretics. Thus, a mixt. of 30 parts 2-amino-5-methyl-6-phenyl-4-pyrimidinol, 80 parts MeI, 12 parts KOH, and 160 parts EtOH is refluxed 1.25 hrs. to give 2-amino-3,5-dimethyl-6-phenyl-4(3H)-pyrimidinone, m. 216-17.degree. (EtOH). Similarly prep'd. are the following I (Ar = Ph) (R, R1, and m.p. given): Et, Me, 184.5-86.degree. (40% EtOH); Pr, Me, 240-2.degree.; n-octyl, Me, 199-200.degree. (EtOH); allyl, Me, 177-9.degree. (EtOH); HC.tplbond.CCH2, Me, .apprx.215.degree. (MeOH); HC.tplbond.CCH2, HC.tplbond.CCH2, 220-2.degree.; HOCH2CH2, Me, 217-18.degree.; HO(CH2)3, Me, .apprx.202.degree.; MeCH(OH)CH2, Me, .apprx.170.degree.; HOCH2CH2, allyl, 193-4.degree.; HOCH2CH2, HC.tplbond.CCH2, 206-8.degree.; MeO(CH2)3, Me, --; EtOCH2CH2, Me, 172-3.degree.; PhOCH2CH2, Me, 184-5.degree.; PhO(CH2)3, Me, --; HOCH2CH2, EtOCH2CH2, 135-6.degree.; HOCH2CH2, Et, 210-12.degree.; HOCH2CH2, Pr, 183-4.degree.; HOCH2CH2, Bu, 183-4.degree.; HOCH2CH2, HOCH2, 240-1.degree.; Me2NCH2CH2, Me, 195-7.degree. (MeOH); 2-piperidinoethyl, Me, 203-5.degree.; 3-pyrrolidinylpropyl, Me, --; 2-morpholinoethyl, Me, 234-5.degree.; 3-morpholinopropyl, Me, --. Similarly prep'd. is I (R = HOCH2CH2, R1 = Me, Ar = p-ClC6H4), m. 213-15.degree. (EtOH). A mixt. of 30 parts 3-(2-hydroxyethyl)-5-methyl-2-ethylthio-6-phenyl-4(3H)-pyrimidinone, 100 parts NH3, and 320 parts EtOH is heated 16 hrs. at 150.degree. in a closed reactor to give I (R = HOCH2CH2, R1 = Me, Ar = Ph), m. 220-2.degree. (MeOH). Similarly prep'd. are (m.p. given): I (R = HOCH2CH2, R1 = HC.tplbond.CCH2, Ar = Ph), 206-8.degree.; I (R = HOCH2CH2, R1 = EtOCH2CH2, Ar = Ph), 135-6.degree..

IT 1033-39-2, Pyrido[4,3-d]pyrimidin-4-ol, 2-amino-5,6,7,8-tetrahydro-6-phenethyl- (prepn. of)

RN 1033-39-2 CAPLUS

CN Pyrido[4,3-d]pyrimidin-4-ol, 2-amino-5,6,7,8-tetrahydro-6-phenethyl- (7CI, 8CI) (CA INDEX NAME)



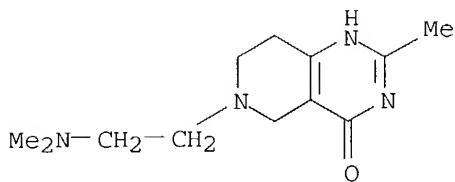
L7 ANSWER 44 OF 48 CAPLUS COPYRIGHT 2004 ACS on STN
 ACCESSION NUMBER: 1966:27616 CAPLUS
 DOCUMENT NUMBER: 64:27616
 ORIGINAL REFERENCE NO.: 64:5111e-h,5112a-d
 TITLE: 5,6,7,8 - Tetrahydropyrido[4,3 - d]pyrimidines
 PATENT ASSIGNEE(S): Dr. Karl Thomae G.m.b.H.
 SOURCE: 13 pp.
 DOCUMENT TYPE: Patent
 LANGUAGE: Unavailable
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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NL 6400580	19650726	NL	19640124	

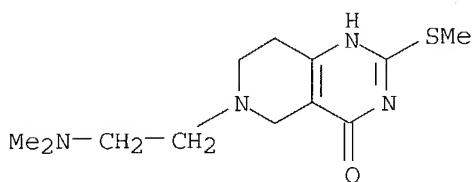
GI For diagram(s), see printed CA Issue.

AB I have therapeutic value. II (prep'd. by known methods, but not always isolated) and salts of RC(:NH)NH2 (III) gave I. The following II (R = H) were used (R1 and m.p. of HCl salt given): Ph, 146.degree.; CH2Ph (IV),

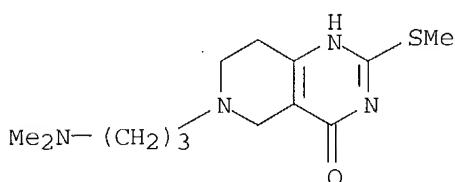
10/634, 181



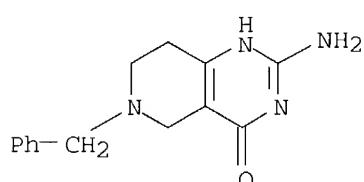
RN 1026-34-2 CAPLUS
CN Pyrido[4,3-d]pyrimidin-4-ol, 6-[2-(dimethylamino)ethyl]-5,6,7,8-tetrahydro-2-(methylthio)- (8CI) (CA INDEX NAME)



RN 1029-50-1 CAPLUS
CN Pyrido[4,3-d]pyrimidin-4-ol, 6-[3-(dimethylamino)propyl]-5,6,7,8-tetrahydro-2-(methylthio)- (7CI, 8CI) (CA INDEX NAME)



RN 1029-52-3 CAPLUS
CN Pyrido[4,3-d]pyrimidin-4(1H)-one, 2-amino-5,6,7,8-tetrahydro-6-(phenylmethyl)- (9CI) (CA INDEX NAME)



RN 1029-53-4 CAPLUS
CN Pyrido[4,3-d]pyrimidin-4-ol, 5,6,7,8-tetrahydro-6-phenethyl- (7CI, 8CI) (CA INDEX NAME)

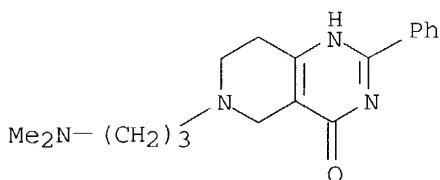
10/634,181

CN Pyrido[4,3-d]pyrimidin-4-ol, 6-[3-(dimethylamino)propyl]-5,6,7,8-tetrahydro-2-phenyl-, oxalate (1:2) (8CI) (CA INDEX NAME)

CM 1

CRN 1044-04-8

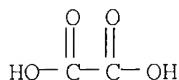
CMF C18 H24 N4 O



CM 2

CRN 144-62-7

CMF C2 H2 O4



L7 ANSWER 45 OF 48 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1965:424196 CAPLUS

DOCUMENT NUMBER: 63:24196

ORIGINAL REFERENCE NO.: 63:4312c-h,4313a

TITLE: 5,6,7,8 - Tetrahydropyrido[4,3 - d]pyrimidines

INVENTOR(S): Ohnacker, Gerhard

PATENT ASSIGNEE(S): Boehringer Ingelheim G.m.b.H.

SOURCE: 14 pp.

DOCUMENT TYPE: Patent

LANGUAGE: Unavailable

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3186991		19650601	US	

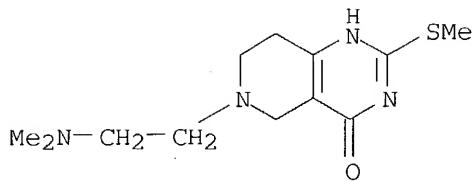
PRIORITY APPLN. INFO.: DE 19620322

GI For diagram(s), see printed CA Issue.

AB The following piperidonecarboxylic acid alkyl esters (I) were prep'd. by means of the Dieckmann reaction from iminodipropionic acid alkyl esters and NaNH₂ or metallic Na (R and m.p. of hydrochloride given): Ph, 146.degree.; PhCH₂ (Ia), 182.degree.; PhCH₂CH₂, 166.degree.; Me₂NCH₂CH₂, 200.degree.; Me₂N(CH₂)₃, 186.degree.; Et₂NCH₂CH₂, 174.degree.; Et₂N(CH₂)₃, 154.degree.. Also prep'd. was II.HCl, m. 194.degree..

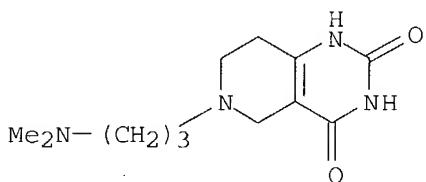
Tetrahydropyridopyrimidines (III) were prep'd. as follows. A soln. of 29.7 g. Ia, 9.5 g. MeC(NH₂):NH, and 27.6 g. K₂CO₃ in 150 ml. H₂O was stirred at 50.degree. for 5 hrs. and 25.degree. for 15 hrs. to yield 9.6 g. III (R = PhCH₂, R₁ = Me), m. 195-7.degree. (EtOH). The following III were similarly prep'd. from the appropriate carboxylic acid ethyl ester dihydrochloride and amidine (R, R₁, and m.p. given): Me₂N(CH₂)₃, CH₂Ph, 135.degree.; PhCH₂, Ph, 245.degree.; Me₂NCH₂CH₂, Ph, 172-4.degree.;

10/634, 181



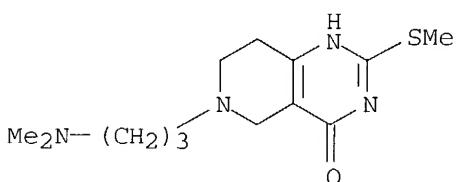
RN 1026-37-5 CAPLUS

CN Pyrido[4,3-d]pyrimidine-2,4-diol, 6-[3-(dimethylamino)propyl]-5,6,7,8-tetrahydro- (8CI) (CA INDEX NAME)



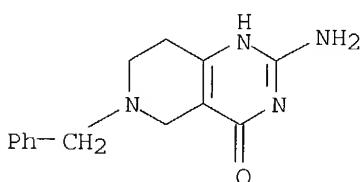
RN 1029-50-1 CAPLUS

CN Pyrido[4,3-d]pyrimidin-4-ol, 6-[3-(dimethylamino)propyl]-5,6,7,8-tetrahydro-2-(methylthio)- (7CI, 8CI) (CA INDEX NAME)



RN 1029-52-3 CAPLUS

CN Pyrido[4,3-d]pyrimidin-4(1H)-one, 2-amino-5,6,7,8-tetrahydro-6-(phenylmethyl)- (9CI) (CA INDEX NAME)



RN 1029-53-4 CAPLUS

CN Pyrido[4,3-d]pyrimidin-4-ol, 5,6,7,8-tetrahydro-6-phenethyl- (7CI, 8CI) (CA INDEX NAME)

ACCESSION NUMBER: 1965:51723 CAPLUS
 DOCUMENT NUMBER: 62:51723
 ORIGINAL REFERENCE NO.: 62:9150h,9151a-b
 TITLE: Ethers of 2-amino-5-methyl-6-phenylpyrimidines
 INVENTOR(S): Wagner, Hans A.
 PATENT ASSIGNEE(S): G. D. Searle & Co.
 SOURCE: 2 pp.
 DOCUMENT TYPE: Patent
 LANGUAGE: Unavailable
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3167553		19650126	US	19630508

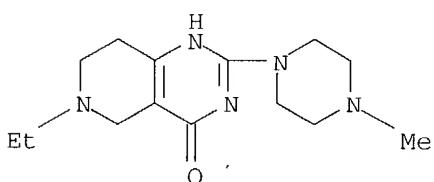
GI For diagram(s), see printed CA Issue.

AB The title compds. were antibiotics. To a soln. of Na 23 in CH₂(OH)CH₂OH 1500 was added 2-amino-4-chloro-5-methyl-6-phenylpyrimidine 219, the mixt. poured into H₂O 20,000 parts, and the solid filtered off to give 2-amino-4-(2-hydroxyethoxy)-5-methyl-6-phenylpyrimidine, m. 143.degree. (MeOH). Similarly prep'd. were the following I (R and m.p. given): (CH₂)₃OH, 140-1.degree.; (CH₂)₂NH₂, 172-3.degree.; (CH₂)₂NMe₂, 75-6.degree.; (CH₂)₃NET₂, --; and (CH₂)₂OPh, 155-6.degree..

IT 1032-79-7, Pyrido[4,3-d]pyrimidin-4-ol, 6-ethyl-5,6,7,8-tetrahydro-2-(4-methyl-1-piperazinyl) - 1036-80-2, Pyrido[4,3-d]pyrimidin-4-ol, 5,6,7,8-tetrahydro-2-(4-methyl-1-piperazinyl)-6-propyl - 1040-26-2, Pyrido[4,3-d]pyrimidin-4-ol, 6-butyl-5,6,7,8-tetrahydro-2-(4-methyl-1-piperazinyl)-6-propyl - 1233-58-5, Pyrido[4,3-d]pyrimidin-4-ol, 5,6,7,8-tetrahydro-6-isobutyl-2-(4-methyl-1-piperazinyl) - (prepn. of)

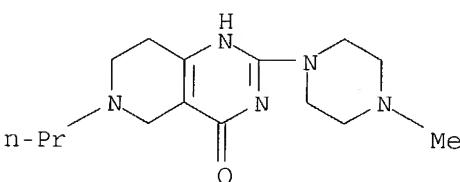
RN 1032-79-7 CAPLUS

CN Pyrido[4,3-d]pyrimidin-4-ol, 6-ethyl-5,6,7,8-tetrahydro-2-(4-methyl-1-piperazinyl) - (7CI, 8CI) (CA INDEX NAME)



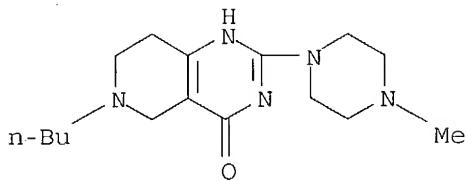
RN 1036-80-2 CAPLUS

CN Pyrido[4,3-d]pyrimidin-4-ol, 5,6,7,8-tetrahydro-2-(4-methyl-1-piperazinyl)-6-propyl - (7CI, 8CI) (CA INDEX NAME)



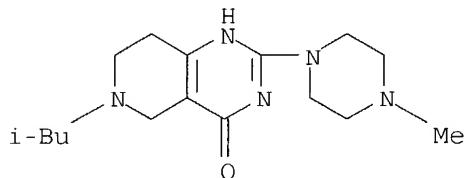
RN 1040-26-2 CAPLUS

CN Pyrido[4,3-d]pyrimidin-4-ol, 6-butyl-5,6,7,8-tetrahydro-2-(4-methyl-1-piperazinyl) - (7CI, 8CI) (CA INDEX NAME)



RN 1233-58-5 CAPLUS

CN Pyrido[4,3-d]pyrimidin-4-ol, 5,6,7,8-tetrahydro-6-isobutyl-2-(4-methyl-1-piperazinyl)- (7CI, 8CI) (CA INDEX NAME)



L7 ANSWER 47 OF 48 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1965:51722 CAPLUS

DOCUMENT NUMBER: 62:51722

ORIGINAL REFERENCE NO.: 62:9150b-h

TITLE: 5,6,7,8 - Tetrahydropyrido[4,3 -d]pyrimidines

PATENT ASSIGNEE(S): Dr. Karl Thomae G.m.b.H.

SOURCE: 16 pp.

DOCUMENT TYPE: Patent

LANGUAGE: Unavailable

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR M2928		19641214	FR	
GB 1033383			GB	

PRIORITY APPLN. INFO.: DE 19620322

GI For diagram(s), see printed CA Issue.

AB Alkyl 4-piperidone-3-carboxylates are treated with an amidine of the general formula $RC(:NH)NH_2$, where R is an alkyl, alkylthio, or amino group, in the presence of base to give compds. of the general formula I, which can be used as antipyretic, diuretic, and bacteriostatic agents and as sedatives. Thus, 22.2 g. Me 1,5-dimethyl-4-piperidone-3-carboxylate-HCl in 50 ml. H₂O was mixed with 19.1 g. PhCH₂C(:NH)NH₂.HCl in 50 ml. H₂O and 20.8 g. K₂CO₃ in 50 ml. H₂O, and the mixt. heated a short time at 60.degree. and kept several hrs. to give 20 g. 2-benzyl-4-hydroxy-6,8-dimethyl-5,6,7,8-tetrahydropyrido[4,3-d]pyrimidine, m. 193-5.degree. (MeOH). Similarly prepd. were the following I (R, R₁, R₂, and m.p. given): H, Me, EtS, 156-7.degree. (EtOAc); 8-Me, Me, MeS, 212.degree. (EtOH); H, Et, MeS, 187.degree.; H, Pr, MeS, 198-9.degree.; H, Pr, EtS, 132.degree.; H, iso-Pr, EtS, 153.degree.; H, Bu, EtS, 184.degree.; H, iso-Bu, EtS, 207-8.degree.; H, Me, PhCH₂, 218-19.degree.; 4-Me (sic), Me, Me, 197-9.degree.; H, Et, PhCH₂, 177-8.degree.; H, Pr, Me, 165-7.degree.; H, iso-Pr, PhCH₂, 163-5.degree.; H, Bu, Me, 146-7.degree.; H, Bu, PhCH₂, 113-14.degree. (malonate m. 151-3.degree.); H, Pr, Bu, 109-10.degree.; H, Me, NBu₂, 135-7.degree.; 4-Me (sic), Me, NMe₂, 185-6.degree.; H, Et, NMe₂, 56-7.degree.; H, hexyl,

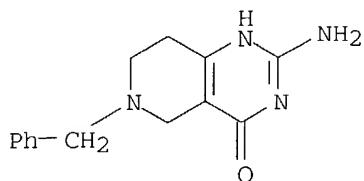
DOCUMENT NUMBER: 62:36868
 ORIGINAL REFERENCE NO.: 62:6493b-g
 TITLE: 5,6,7,8-Tetrahydropyrido[4,3-d]pyrimidines
 PATENT ASSIGNEE(S): Dr. Karl Thomae G.m.b.H.
 SOURCE: 18 pp.
 DOCUMENT TYPE: Patent
 LANGUAGE: Unavailable
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR M2798		19641019	FR	
BE 642910			BE	
GB 1028405			GB	

PRIORITY APPLN. INFO.: DE 19620322
 AB The title compds. (I) were prep'd. by alk. condensation of an amidine with a substituted 3-carbethoxy-4-piperidone. Thus, a soln. of 29.7 g. Et N-benzyl-4-piperidone-3-carboxylate-HCl, 9.5 g. acetamidine-HCl, and 27.6 g. K₂CO₃ in 50 ml. H₂O was stirred 5 hrs. at 50.degree. and 15 hrs. at 25.degree. to give 9.6 g. I (R = H, R₁ = PhCH₂, R₂ = Me) (Ia), m. 195-7.degree. (EtOH). The tabulated I were prep'd. in a similar manner. Similarly were prep'd. the 4-Me analogs of Ia, m. 177-8.degree., of II, m. 194-5.degree., and of III, m. 128-9.degree.. I had antiinflammatory, antipyretic, diuretic, bacteriostatic, sedative, and coronary dilatory activity. R, R₁, R₂, m.p., R, R₁, R₂, m.p.; H, Me₂N(CH₂)₃, PhCH₂, 135.degree., H, PhCH₂, Ph (II), 245.degree.; H, Me₂N(CH₂)₂, Ph, 172-4.degree., H, Et₂N(CH₂)₃, Ph, 117.degree.; H, PhCH₂, NH₂, 269-70.degree., H, PhCH₂, Q, 240.degree.; H, Ph, Q, 260-1.degree., H, PhCH₂, MeS, 211-12.degree.; 8-Me, PhCH₂, EtS, 156-7.degree., H, Ph(CH₂)₂, EtS, 203-4.degree.; H, Me₂N(CH₂)₂, PhCH₂S, 168-9.degree., H, PhCH₂, PhNH, 249-51.degree.; H, Et₂N(CH₂)₂, Z, 106-7.degree., H, Ph, Ph, 302-4.degree.; H, MeO(CH₂)₃, Ph, 143.degree., H, Me₂N(CH₂)₃, OH, 244-5.degree.; H, Ph, MeS, 234-5.degree., H, cyclohexyl, MeS, 253.degree.; H, Me₂N(CH₂)₂, MeS, 180.degree., H, Me₂N(CH₂)₃, MeS, 139.degree.; H, Et₂N(CH₂)₂, MeS, 178-9.degree., H, Et₂N(CH₂)₃, MeS, 126-7.degree.; H, Et₂N(CH₂)₂, PhCH₂S, 135-6.degree., H, Me₂N(CH₂)₃, PhCH₂S, 151.degree.; H, PhCH₂, PhCH₂, 227-8.degree., H, Me₂N(CH₂)₂, Me, 107-8.degree.; H, Me₂N(CH₂)₂, PhCH₂, 171-2.degree., H, Me₂N(CH₂)₃, Ph, 150-1.degree.; , , , , (dioxalate m. 223-5.degree.); H, Et₂N(CH₂)₂, Ph, 141-2.degree., H, Et₂N(CH₂)₂, PhCH₂, 136-8.degree.; H, Et₂N(CH₂)₃, PhCH₂, 106-8.degree., H, Ph, Z, 261-2.degree.; H, Ph, Q, 260-1.degree., H, Ph, 4-methylpiperazino, 268-9.degree.; H, PhCH₂, PrNOMe, 162-3.degree., H, PhCH₂, Bu₂N (III), 104.degree.; H, Ph(CH₂)₂, Bu, 161-2.degree., H, PhCH₂, Y, 233-5.degree.; H, PhCH₂, Z, 220-2.degree., H, PhCH₂, 4-methylpiperazino, 218.degree.; , , , , [tartrate m. 140.degree. (decompn.)]; H, PhCH₂, 4-(.beta.-hydroxyethyl)-piperazino, 227-8.degree., H, PhCH₂, cyclohexylamino, 95-6.degree.; H, PhCH₂, PhCH₂NMe, 181-2.degree., H, Ph(CH₂)₂, Q, 226.degree.; H, Ph(CH₂)₂, 4-methylpiperazino, 177-8.degree., H, cyclohexyl, Q, 231-3.degree.; H, cyclohexyl, 4-methylpiperazino, 213-15.degree., H, Me₂N(CH₂)₃, Y, 143.degree.; H, Me₂N(CH₂)₃, Z, 142.degree., H, Me₂N(CH₂)₃, Q, 168.degree.; H, Et₂N(CH₂)₂, Y, 134-5.degree., H, Et₂N(CH₂)₂, Z, 106-7.degree.; H, Et₂N(CH₂)₂, Q, 144-5.degree., H, Et₂N(CH₂)₂, 4-methylpiperazino, 142-3.degree.; H, Et₂N(CH₂)₃, Z, 89-90.degree., H, Et₂N(CH₂)₃, Q, 103-4.degree.; H, PhCH₂, hexylamino, 152-3.degree., H, PhCH₂, Me₂N(CH₂)₃, 173-5.degree.; 7-Me, PhCH₂, Me₂N, 233-5.degree., H, PhCH₂, Me₂N, 218.degree.; H, Ph(CH₂)₂, Me₂N, 200-1.degree., 8-Me, PhCH₂, Me₂N, 157-9.degree.; H, PhCH₂, Pr, 147-8.degree., H, PhCH₂, Et, 172-4.degree.; H, PhCH₂, Bu, 147-8.degree., H, PhCH₂, iso-Pr, 187-8.degree.; 7-Me, PhCH₂, Pr, 148-50.degree., 7-Me, PhCH₂, Et, 169-70.degree.; 7-Me, PhCH₂, PhCH₂, 174-6.degree., 7-Me, PhCH₂, Bu,

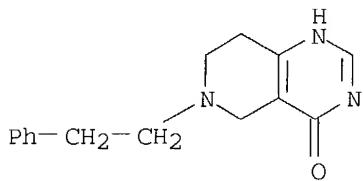
10/634, 181

CN Pyrido[4,3-d]pyrimidin-4(1H)-one, 2-amino-5,6,7,8-tetrahydro-6-(phenylmethyl)- (9CI) (CA INDEX NAME)



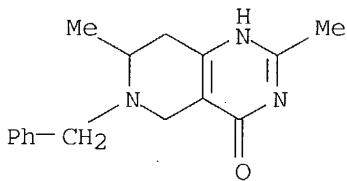
RN 1029-53-4 CAPLUS

CN Pyrido[4,3-d]pyrimidin-4-ol, 5,6,7,8-tetrahydro-6-phenethyl- (7CI, 8CI) (CA INDEX NAME)



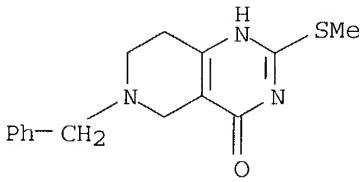
RN 1033-19-8 CAPLUS

CN Pyrido[4,3-d]pyrimidin-4-ol, 6-benzyl-5,6,7,8-tetrahydro-2,7-dimethyl- (7CI, 8CI) (CA INDEX NAME)



RN 1033-34-7 CAPLUS

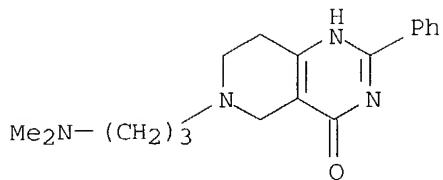
CN Pyrido[4,3-d]pyrimidin-4(1H)-one, 5,6,7,8-tetrahydro-2-(methylthio)-6-(phenylmethyl)- (9CI) (CA INDEX NAME)



RN 1033-38-1 CAPLUS

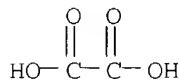
CN Pyrido[4,3-d]pyrimidin-4-ol, 5,6,7,8-tetrahydro-2-methyl-6-phenethyl- (7CI, 8CI) (CA INDEX NAME)

10/634, 181



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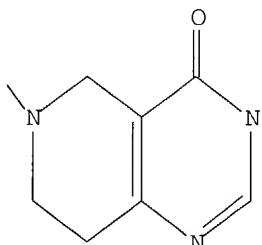
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Day : Friday
 Date: 1/23/2004
 Time: 16:51:52

PALM INTRANET

Inventor Name Search Result

Your Search was:

Last Name = LI

First Name = JIE

Application#	Patent#	Status	Date Filed	Title	Inventor Name 51
60526007	Not Issued	020	12/02/2003	BULK SORTING OF DESICCATION-TOLERANT CONIFER SOMATIC EMBRYOS	LIU, JIE
60515256	Not Issued	018	01/01/0001	DELIVERY OF IMMUNE RESPONSE MODIFIER COMPOUNDS USING METAL-CONTAINING PARTICULATE SUPPORT MATERIALS	LIU, JIE J.
60507913	Not Issued	020	09/30/2003	STRUCTURE OF THE HIV TRIMERIZATION DOMAIN AND ITS USE FOR DEVELOPING INHIBITORS OF HIV INFECTION	LIU, JIE
60349002	Not Issued	159	01/14/2002	METHOD AND SYSTEM FOR BURST TRANSMISSION AND ACKNOWLEDGMENT	LIANG, JIE
60333969	Not Issued	159	11/29/2001	NOVEL MODEL FOR DISCOVERY OF GENE FUNCTION BY PROTEIN SURFACE MATCHING	LIANG, JIE T.
60311014	Not Issued	159	08/09/2001	DNA ENCODING RAT BOMBESIN RECEPTOR SUBTYPE-3 (BRS-3) AND USES THEREOF	LIU, JIE
60286040	Not Issued	159	04/23/2001	FASTER PARALLEL CONTINUOUS WAVELET TRANSFORM ON RECONFIGURABLE MESHES	LI, JIE
60268780	Not Issued	159	02/14/2001	BICYCLIC PYRIMIDINE MATRIX METALLOPROTEINASE INHIBITORS	LI, JIE JACK
60268756	Not	159	02/14/2001	FUSED PYRIMIDINONE MATRIX	LI, JIE JACK

	Issued			METALLOPROTEINASE INHIBITORS	
<u>60262008</u>	Not Issued	159	01/16/2001	PROPOSAL FOR COLLABORATIVE BT AND 802.11B MAC MECHANISMS FOR ENHANCED COEXISTENCE	LIANG, JIE
<u>60244734</u>	Not Issued	159	10/31/2000	ORGANIC BISTABLE DEVICE AND ORGANIC MEMORY CELLS	LIU, JIE
<u>60214300</u>	Not Issued	159	06/26/2000	PEPTIDES OF MAMMALIAN PROTEINS; METHODS; USES	LIU, JIE
<u>60204308</u>	Not Issued	159	05/15/2000	FORMULATIONS FOR ADMINISTERING CALCITONIN AND PROCESSES FOR PREPARING THE SAME	LIU, JIE
<u>60177433</u>	Not Issued	159	01/21/2000	DIGITAL STILL CAMERA SYSTEM AND METHOD	LIANG, JIE
<u>10690446</u>	Not Issued	020	10/21/2003	RECEIVER WITH LOW POWER LISTEN MODE IN A WIRELESS LOCAL AREA NETWORK	LIANG, JIE
<u>10669612</u>	Not Issued	020	09/24/2003	CONFIGURATION OF A DIRECTORY SYSTEM	LIU, JIE
<u>10662083</u>	Not Issued	020	09/15/2003	COMPOUND ELECTRODES FOR ELECTRONIC DEVICES	LIU, JIE
<u>10655301</u>	Not Issued	020	09/05/2003	SYSTEMS AND METHODS FOR DISTRIBUTED GROUP FORMATION AND MAINTENANCE IN GEOGRAPHICALLY BASED NETWORKS	LIU, JIE
<u>10635976</u>	Not Issued	019	08/07/2003	METHOD FOR FORMING AN ARRAY OF SINGLE-WALL CARBON NANOTUBES IN AN ELECTRIC FIELD AND COMPOSITIONS THEREOF	LIU, JIE
<u>10635067</u>	Not Issued	020	08/05/2003	SYSTEM FOR OPERATIONAL COEXISTENCE OF WIRELESS COMMUNICATION TECHNOLOGIES	LIANG, JIE
<u>10634182</u>	Not Issued	030	08/05/2003	NAPHTHALENE DERIVATIVES AS MATRIX METALLOPROTEINASE INHIBITORS	LI, JIE JACK
<u>10634181</u>	Not Issued	030	08/05/2003	FUSED TETRAHYDROPYRIDINE DERIVATIVES AS MATRIX METALLOPROTEINASE	LI, JIE JACK

INHIBITORS					
<u>10035075</u>	Not Issued	020	12/28/2001	METHOD FOR CUTTING NANOTUBES	LIU, JIE
<u>10034745</u>	Not Issued	041	12/28/2001	METHOD FOR FORMING AN ARRAY OF SINGLE-WALL CARBON NANOTUBES AND COMPOSITIONS THEREOF	LIU, JIE
<u>10033228</u>	Not Issued	030	12/28/2001	METHOD FOR PRODUCING SELF-ASSEMBLED OBJECTS COMPRISING SINGLE-WALL CARBON NANOTUBES AND COMPOSITIONS THEREOF	LIU, JIE
<u>10033092</u>	Not Issued	030	12/28/2001	METHOD FOR FORMING A PATTERNED ARRAY OF SINGLE-WALL CARBON NANOTUBES	LIU, JIE
<u>10032933</u>	Not Issued	041	12/28/2001	METHOD FOR PURIFICATION OF AS-PRODUCED SINGLE-WALL CARBON NANOTUBES	LIU, JIE
<u>10032732</u>	Not Issued	030	12/28/2001	METHOD FOR GROWING CONTINUOUS FIBER	LIU, JIE
<u>10032726</u>	Not Issued	030	12/28/2001	METHOD FOR GROWING SINGLE-WALL CARBON NANOTUBES UTILIZING SEED MOLECULES	LIU, JIE
<u>10026317</u>	Not Issued	030	12/20/2001	NON-COLLABORATIVE MECHANISMS FOR ENHANCED COEXISTENCE OF WIRELESS NETWORKS	LIANG, JIE
<u>10016260</u>	6528540	150	10/30/2001	ESMOLOL FORMULATION	LIU, JIE
<u>10011221</u>	Not Issued	030	10/25/2001	COLLABORATIVE MECHANISM OF ENHANCED COEXISTENCE OF COLLOCATED WIRELESS NETWORKS	LIANG, JIE
<u>09957103</u>	Not Issued	041	09/20/2001	PELLET FEEDING SYSTEM FOR A MOULDING MACHINE	LIU, JIE
<u>09901256</u>	Not Issued	092	07/09/2001	MOLD CLEANING APPARATUS	LIU, JIE
<u>09901143</u>	Not Issued	094	07/10/2001	MOLDING APPARATUS	LIU, JIE
<u>09892230</u>	Not Issued	041	06/25/2001	PEPTIDES OF MAMMALIAN PROTEINS, METHODS, USES	LIU, JIE
<u>09810390</u>	Not Issued	094	03/16/2001	METHODS OF CHEMICALLY DERIVATIZING SINGLE WALL	LIU, JIE

CARBON NANOTUBES					
<u>09810201</u>	6645455	150	03/16/2001	CHEMICAL DERIVATIZATION OF SINGLE-WALL CARBON NANOTUBES TO FACILITATE SOLVATION THEREOF; AND USE OF DERIVATIZED NANOTUBES TO FORM CATALYST-CONTAINING SEED MATERIALS FOR USE IN MAKING CARBON FIBERS	LIU, JIE
<u>09810150</u>	Not Issued	071	03/16/2001	CHEMICAL DERIVATIZATION OF SINGLE-WALL CARBON NANOTUBES TO FACILITATE SOLVATION THEREOF, AND USE OF DERIVATIZED NANOTUBES TO FORM CATALYST-CONTAINING SEED MATERIALS FOR USE IN MAKING CARBON FIBERS	LIU, JIE
<u>09809885</u>	Not Issued	041	03/16/2001	CHEMICAL DERIVATIZATION OF SINGLE-WALL CARBON NANOTUBES TO FACILITATE SOLVATION THEREOF; AND USE OF DERIVATIZED NANOTUBES TO FORM CATALYST-CONTAINING SEED MATERIALS FOR USE IN MAKING CARBON FIBERS	LIU, JIE
<u>09809865</u>	Not Issued	080	03/16/2001	CHEMICAL DERIVATIZATION OF SINGLE-WALL CARBON NANOTUBES TO FACILITATE SOLVATION THEREOF, AND USE OF DERIVATIZED NANOTUBES TO FORM CATALYST-CONTAINING SEED MATERIALS FOR USE IN MAKING CARBON FIBERS	LIU, JIE
<u>09768144</u>	Not Issued	090	01/24/2001	SYSTEM AND METHOD OF PREPARING AND PROCESSING DATA FOR TRADE PROMOTION	LIU, JIE
<u>09710186</u>	6372407	150	11/10/2000	PHOTOCURABLE AND PHOTOPATTERNABLE HYDROGEL MATRIX BASED ON AZLACTONE COPOLYMERS	LIU, JIE
<u>09632543</u>	Not Issued	030	08/04/2000	DIGITAL STILL CAMERA SYSTEM AND METHOD	LIANG, JIE
<u>09622423</u>	6548499	150	10/20/2000	SUBSTITUTED QUINOXALINE	LI, JIE JACK

				DERIVATIVES AS INTERLEUKIN-8 RECEPTOR ANTAGONISTS	
09586007	6485706	150	06/02/2000	FORMULATIONS COMPRISING DEHYDRATED PARTICLES OF PHARMA-CEUTICAL AGENTS AND PROCESS FOR PREPARING THE SAME	LIU, JIE
09564277	6498116	150	05/04/2000	COATING AND FILLER MATERIALS FOR USE IN LOCALIZED THERMAL PROCESSING OF GLAZED CERAMICS AND OTHER BRITTLE AND LOW THERMAL CONDUCTIVITY MATERIALS	LI, JIE
09550115	Not Issued	071	04/14/2000	NF-AT DERIVED POLYPEPTIDES THAT BIND CALCINEURIN AND USES THEREOF	LIU, JIE
09526309	6495665	150	03/15/2000	ISOFORMS OF MOUSE SEROTONIN 5-HT2C RECEPTOR	LIU, JIE
09517234	Not Issued	120	03/02/2000	IMAGE CODING USING EMBEDDED ZEROTREE PATTERNS AND BITPLANES	LIANG, JIE
09500565	6359057	150	02/10/2000	MODELING DOUGH AND METHOD OF MAKING THE SAME	LI, JIE

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